

Incident Number: nAPP2500254282

Incident Closure

Brushy Draw 30 – 31 Federal Battery

Section 31, Township 25 South, Range 30 East Facility ID: fAPP2207332396 Latitude & Longitude: 32.09137, -103.91807 County: Eddy County Vertex File Number: 25E-00017

Prepared for: ExxonMobile Upstream Company

Prepared by: Vertex Resource Services Inc.

Date: April 2025 Brushy Draw 30 - 31 Federal Battery

Incident Closure April 2025

Incident Closure Brushy Draw 30 – 31 Federal Battery Section 31, Township 25 South, Range 30 East Facility ID: fAPP2207332396 Latitude & Longitude: 32.09137, -103.91807 County: Eddy County

Prepared for: ExxonMobil Upstream Company 3104 E. Greene Street Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division 508 West Texas Avenue Artesia, New Mexico 88210

Prepared by: Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad, New Mexico 88220

3 1--

4/7/2025

Chad Hensley, B. Sc. GCNR SENIOR PROJECT MANAGER, REPORT REVIEW Date

VERSATILITY. EXPERTISE.

ExxonMobil Upstream Company	Incident Closure
Brushy Draw 30 - 31 Federal Battery	April 2025

Table of Contents

1.0	Introduction	. 1
2.0	Incident Description	. 1
3.0	Site Characteristics	. 1
4.0	Closure Criteria Determination	. 2
5.0	Remedial Actions Taken	. 4
6.0	Closure Request	. 4
7.0	References	. 6
8.0	Limitations	. 7

•

Brushy Draw 30 - 31 Federal Battery

Incident Closure April 2025

In-text Tables

- Table 1. Closure Criteria Determination
- Table 2. Closure Criteria for Soils Impacted by a Release

List of Figures

Figure 1. Confirmatory Sampling Site Schematic

List of Tables

Table 3. Confirmatory Sample and Laboratory Results - Depth to Groundwater – Depth to Groundwater <50 feet bgs

List of Appendices

- Appendix A. Closure Criteria Research Documentation
- Appendix B. Daily Field and Sampling Report(s)
- Appendix C. Laboratory Data Report(s) and Chain of Custody Form(s)

Incident Closure April 2025

1.0 Introduction

ExxonMobil Upstream Company (Exxon) retained Vertex Resource Services Inc. (Vertex) to conduct a deferral request for a produced water release that occurred on January 1, 2025, at Brushy Draw 30 – 31 Federal Tank Battery facility ID fAPP2207332396 (hereafter referred to as the "site"). Exxon submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) on January 2, 2025. Incident ID number NAPP2500254282 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed at such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on January 1, 2025, due to corrosion. The incident was reported on January 2, 2025, and involved the release of approximately 47 barrels (bbl.) of produced water on the pad site. Approximately 10 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFRs) and site photographs are included in Appendix B.

3.0 Site Characteristics

The site is located approximately 29 miles Southeast of Carlsbad, New Mexico. The legal location for the site is Section 31, Township 25 South and Range 30 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management (BLM) property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area on and in proximity to the constructed pad (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprises Qep - Eolian and piedmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2024). The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018). The surrounding landscape is associated with plains and fan piedmonts with elevations ranging between 2,000 and 5,700 feet. The climate is semiarid with average annual precipitation ranging between 5 and 15 inches. Predominant soil textures around the site are well-drained fine sands and fine sandy loams with low runoff potential (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses interspersed with shrubs and half-shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted facility pad.

1

Incident Closure April 2025

4.0 Closure Criteria Determination

The nearest active well to the site is an industrial and prospecting development well 1.95 miles to the south. There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 722 feet northwest of the site (United States Fish and Wildlife Service, 2025). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC

The nearest depth to groundwater reference to the site is an exploratory well advanced 1.57 miles to the east on January 17, 2015. Depth to groundwater at the well was 277 feet below ground surface (bgs) (New Mexico Office of the State Engineer, 2025). Information pertaining to the depth to ground water determination is included in Appendix A.

2

ExxonMobil Upstream Company

Brushy Draw 30 – 31 Federal Battery

.

Incident Closure April 2025

	e: Brushy Draw 30-31 Federal Battery	V 600001	V 0554000
	Coordinates: 32.091537,-103.918753	X: 602031	Y: 3551093
Spec	ific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	10	0-500 ft
1	Distance between release and nearest DTGW reference	1	- 5 mi
	Date of nearest DTGW reference measurement	Janua	ry 17, 2015
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	500	- 1000 ft
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1	5 mi
4	Within 300 feet from an occupied residence, school, hospital, institution or church	!	5mi <
5	 i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 	1	- 5 mi
	ii) Within 1000 feet of any fresh water well or spring	1	- 5 mi
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	1	5 mi
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	!	5mi <
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	1	5 mi
	Within a 100-year Floodplain	>500	year
10	Distance between release and nearest FEMA Zone A (100- year Floodplain)	500	- 1000 ft
11	Soil Type	Fine sand,	sandy clay loam
12	Ecological Classification	Loa	my sand
13	Geology	Eolian and p	eidmont deposits
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Exxon	Mobil Upstream Company
Brushy	v Draw 30 – 31 Federal Battery

The depth to groundwater reference exceeded 0.5 miles from the release area; therefore, the closure criteria for remediation and reclamation of the site was determined to be associated with the strictest constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a	a Release	
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	600 mg/kg
4 FO fast	TPH (GRO+DRO+MRO)	100 mg/kg
< 50 feet	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on January 23, 2025, which identified the area of the release specified in the initial C-141 Report. The impacted area was determined to be approximately 8,971 square feet. The Daily Field Report (DFR) associated with the site inspection is included in Appendix B.

Remediation efforts began on January 23, 2025, and were finalized on March 20, 2025. Vertex personnel supervised the excavation of impacted soils. Soils were removed to a depth of 1 to 3 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid Waste. DFRs documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD on February 13, 2025. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 69 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Closure Request

The release area was fully delineated, remediated, and backfilled with local soil by March 20, 2025. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release location "under 50 feet to groundwater". Based on these findings, Exxon requests that this release be closed.

ExxonMobil Upstream Company Brushy Draw 30 – 31 Federal Battery

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or Chensley@Vertexresource.com.

.

7.0 References

Google Inc. (2025). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com

- New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map.* Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2025). Assessed and Impaired Waters of New Mexico. Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2025). OCD Permitting Spill Search. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Mining and Minerals Division. (2025). *Coal Mine Resources in New Mexico*. Retrieved from https://nmemnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93
- New Mexico Office of the State Engineer. (2025a). Point of Diversion Location Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2025b). *Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2025c). Well Log/Meter Information Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2025). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2025). FEMA Flood Map Service: Search by Address. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Geological Survey. (2025). National Water Information System: Web Interface. Retrieved from https://waterdata.usgs.gov/nwis
- United States Fish and Wildlife Service. (2025). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

6

Incident Closure April 2025

8.0 Limitations

This report has been prepared for the sole benefit of ExxonMobil. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and ExxonMobil. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

7

FIGURES





Released to Imaging: 4/25/2025 7:46:45 AM



TABLES

Client Name: ExxonMobil Upstream Company Site Name: Brushy Draw 30-31 Federal Battery NMOCD Tracking #: nAPP2500254282 Project #: 25E-00017 Lab Reports: H250927, H251017, H251073, H251075, and H251678

		Table 3. Co	nfirmatio	n Sample a						
	Sample Des	cription			Petrole	eum Hydro	carbons			
			Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg) De	(mg/kg)	(mg/kg) undwater ≤	(mg/kg) 50 ft	(mg/kg)	(mg/kg)
BS25-01	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-01 BS25-02	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	96
BS25-02 BS25-03	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	96
BS25-03	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-04 BS25-05	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-06	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-07	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-08	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	176
BS25-09	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-10	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-11	1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	96
BS25-12	1	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-13	1	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-14	1	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-15	1.5	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-16	3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-17	3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-18	1.5	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-19	1.5	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-20	3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	144
BS25-21	3	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	256
BS25-22	1	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	112
BS25-23	1	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	80
BS25-24	1	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	208
BS25-25	2	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	112
BS25-26	1	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	160
BS25-27	2	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	192
BS25-28	3	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	208
BS25-29	3	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-30	2	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	176
BS25-31	2	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-32	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	80
BS25-33	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	128
BS25-34	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	80
BS25-35	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-36	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	80
BS25-37	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-38	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	80



.

Client Name: ExxonMobil Upstream Company Site Name: Brushy Draw 30-31 Federal Battery NMOCD Tracking #: nAPP2500254282 Project #: 25E-00017 Lab Reports: H250927, H251017, H251073, H251075, and H251678

		Table 3. Co	nfirmatio	n Sample a	and Labor	atory Resu	ılts			
	Sample Des	cription			Petrole	eum Hydro	arbons			
			Vola	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	euseue (mg/kg)	ଅ ଅଧି ଅନ୍ଧ୍ୟ (ସିସ୍ଥ୍ର)	ଞ୍ଚି Gasoline Range Organics ଜୁ ଓଡି	없 Diesel Range Organics (DRO)	ଞ୍ଚି Motor Oil Range Organics ଜୁ (MRO)	(GRO + DRO) (mg/kg)	ଞ୍ଚି Total Petroleum କ୍ରୁ Hydrocarbons (TPH)	a) (ay/de Concentration (ay/
			(118/ 18)	(1118/ 118)		pth to Grou			(1118/ 118)	(111g/ Kg)
BS25-39	1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-01	0-1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	32
	0-1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	6,700
WS25-02	0-1.5	March 20, 2025	ND	ND	ND	ND	ND	ND	ND	336
WS25-03	0-1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	80
WS25-04	0-1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	240
WS25-05	0-1.5	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	288
WS25-06	0.5-1	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	96
WS25-07	0-1	February 15, 2025	ND	ND	ND	ND	ND	ND	ND	240
WS25-08	0-1.5	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	64
WS25-09	0-1.5	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	48
WS25-10	0-3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	160
14/625 44	0-3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	1,520
WS25-11	0-3	March 20, 2025	ND	ND	ND	ND	ND	ND	ND	320
WS25-12	1.5-3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	48
WS25-13	1.5-3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	64
	0-1.5	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	1,360
WS25-14	0-1.5	March 20, 2025	ND	ND	ND	ND	ND	ND	ND	16
	0-3	February 19, 2025	ND	ND	ND	ND	ND	ND	ND	1,260
WS25-15	0-3	March 20, 2025	ND	ND	ND	ND	ND	ND	ND	352
WS25-16	0-3	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	208
WS25-17	0-1	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	256
WS25-18	0-1	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	288
WS25-19	0-2	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	128
WS25-20	0-3	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	128
WS25-21	0-2	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	176
WS25-22	0-1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	256
WS25-23	0-1.5	March 7, 2025	ND	ND	ND	ND	ND	ND	ND	144
WS25-24	0-1	March 20, 2025	ND	ND	ND	ND	ND	ND	ND	240
WS25-25	0-1	March 20, 2025	ND	ND	ND	ND	ND	ND	ND	ND
Backfill	-	February 21, 2025	ND	ND	ND	ND	ND	ND	ND	240

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

.

APPENDIX A - Closure Criteria Research Documentation

OSE POD 0.5 Miles





12/11/2024, 8:13:17 AM GIS WATERS PODs

- Active
- Plugged

- Water Right Regulations
 - Artesian Planning Area
- NHD Flowlines
 - Stream River
- OSE District Boundary



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user This is an unofficial map from the OSE's online application.

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)				ers are est to la	gest)				(NAD83 UTI	V in meters)			(In feet)	(In feet)	(In feet
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Y	Мар	Distance	Well Depth	Depth Water	Water Column
<u>C 03782 POD1</u>		CUB	ED	SE	SW	SW	28	255	30E	604525.7	3551444.2		2522	805	277	528
<u>C 01360</u>		CUB	ED	SE	SW	SW	05	265	30E	602996.6	3548152.0		3142	770	173	597
<u>C 04705 POD1</u>		CUB	ED	NE	NW	NE	35	255	29E	598866.5	3551191.8	•	3155			
<u>C 01361</u>		CUB	ED	SW	SE	SW	05	265	30E	603240.4	3548157.5		3221	775	184	591
<u>C 03581 POD1</u>		CUB	ED	SE	SE	SE	05	265	30E	604298.2	3548291.8	0	3646	800	320	480
<u>C 03483</u>		С	ED	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3676	700	200	500
<u>C 04558 POD1</u>		CUB	ED	SW	SE	SW	23	255	29E	598353.7	3553039.4	•	4130			
<u>C 04529 POD1</u>		CUB	ED	NW	SW	NW	18	255	30E	601076.9	3555733.7	۲	4689			
<u>C 04755 POD2</u>		CUB	ED	SE	NW	SW	12	265	29E	599857.0	3546955.1	•	4711	25		
<u>C 04720 POD1</u>		CUB	ED	SE	NW	SW	12	26S	29E	599807.3	3546968.8	•	4722			
<u>C 04755 POD1</u>		CUB	ED	SE	NW	SW	12	265	29E	599787.4	3546971.4	•	4729	40		
<u>C 04720 POD4</u>		CUB	ED	SE	NW	SW	12	265	29E	599812.4	3546955.0	•	4732			
<u>C 04720 POD2</u>		CUB	ED	SE	NW	SW	12	26S	29E	599835.7	3546932.1	۲	4741			
<u>C 04720 POD3</u>		CUB	ED	SE	NW	SW	12	265	29E	599835.7	3546932.1	•	4741			
<u>C 04720 POD5</u>		CUB	ED	SE	NW	SW	12	265	29E	599840.0	3546920.4	•	4750	20		
<u>C 04720 POD6</u>		CUB	ED	SE	NW	SW	12	265	29E	599857.7	3546880.9	•	4777	31		
<u>C 04755 POD3</u>		CUB	ED	SE	NW	SW	12	265	29E	599747.8	3546862.3	•	4844	103		

Average Depth to Water: 230 $f\varepsilon$

Minimum Depth: 173 feet

Maximum Depth: 320 feet

► F

•

Record Count: 17

UTM Filters (in meters): Easting: 602022 Northing: 3551140 Radius: 005000 * UTM location was derived from PLSS - see Help Received by OCD: 4/7/2025 2:09:53 PM The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 6:21 AM MST

Water Column/Average Depth to Water

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

Received by OCD: 4/7/2025 2:09:53 PM

		•	e 1=NW 2=NE 3 s are smallest to					NAD83 UTM	in meters		
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	х	Y	Мар	
	C 03782 POD1	SE	SW	SW	28	25S	30E	604525.7	3551444.2	8	
UTM locatio	on was derived from P	LSS - see He	lp								
Driller License:	331	Driller	Company:	SBQ2, LI	LC DBA	STEWA	rt bro	THERS DRILL	ING CO.		
Driller Name:	STEWART, Jo	OEL H.									
Drill Start Date:	2015-01-16	Drill Fi	nish Date:	2015-01	-17				Ρ	lug Date:	
Log File Date:	2015-02-19	PCW R	cv Date:						S	ource:	Artesia
Pump Typ	e:	Pipe D Size:	ischarge							stimated ïeld:	

Water Bearing Stratifications:

Тор	Bottom	Description
260	320	Sandstone/Gravel/Conglomerate
320	380	Sandstone/Gravel/Conglomerate
380	410	Sandstone/Gravel/Conglomerate
410	530	Shale/Mudstone/Siltstone
530	590	Shale/Mudstone/Siltstone
590	600	Shale/Mudstone/Siltstone
600	630	Shale/Mudstone/Siltstone
630	650	Shale/Mudstone/Siltstone
650	700	Shale/Mudstone/Siltstone
700	710	Shale/Mudstone/Siltstone
710	760	Shale/Mudstone/Siltstone
760	770	Shale/Mudstone/Siltstone

Received by OCD: 4/7/2025 2:09:53 PM

Тор	Bottom	Description
770	780	Shale/Mudstone/Siltstone
780	790	Shale/Mudstone/Siltstone
790	805	Shale/Mudstone/Siltstone

Casing Perforations:

Top Bottom

270 805

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 6:57 AM MST

Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

	WR F	ile Num	ber: C	3782				Sub	basin:	CUB	Cross	Referen	ce:			
<u>et image</u>	Prima	ary Purp	ose: EX	P EXPLO	ORATIO	N										
<u>list</u>	Prima	ary Statı	IS: PN	IT Perm	it											
	Total	Acres:						Sub	file:		Heade	r:				
	Total	Diversio	on: 0.0	00				Cau	se/Case:							
	Owne	er:	AT	<ins en<="" th=""><th>IGR AS</th><th>SOC INC</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></ins>	IGR AS	SOC INC										
	Conta	act:	CH	ris co	RTEZ											
	Owne	er:	BC	PCO, L.	P.											
	Conta	act:	BR	IAN PR	EGGER											
ocuments or	n File													(ac	re-feet	per annum)
OCUMENTS OF Transaction mages	n File Trn #	Doc	File/Act	S 1	tatus	Status 2	Tran	saction	Desc.		F	rom/To	Acres	(ac Diversi		per annum) Consump
ransaction mages		Doc EXPL	File/Act 2014-11	1			Tran C 03		Desc.		F	rom/To	Acres 0.000			
ransaction mages	Trn #	EXPL	•	1		2			Desc.			rom/To		Diversi		
ransaction mages _get images	Trn #	EXPL	2014-11	1	'MT	2 LOG			Desc.	Y		rom/To Map	0.000	Diversi	on	
ransaction mages _get images urrent Points	Trn # 555125 s of Dive	EXPL	2014-11: e Q64	1 14 F	'MT	2 LOG Sec	C 03	782					0.000 Other L	Diversi 0.000	on Pesc	
ransaction mages 	Trn # 555125 s of Dive Well Tag	EXPL rsion Sourc Artesi	2014-11 e Q64 an SE	1 14 F Q16	imt 5 Q4	2 LOG Sec	C 03	782 Rng	x		T	Мар	0.000 Other L	Diversi 0.000	on Pesc	Consump

12/11/24 6:59 AM MST

Water Rights Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

WELL RECORD & LOG office of the state engineer

www.ose.state.nm.us

CATION	OSE POD NU POD-1 WELL OWN BOPCO,) enu	NUMBER)	-3832-	POD 2	· · · · · · · · · · · · ·	OSE FILE NU C 3782 PHONE (OPTI (817) 390	ex Ploratory	Penul)	mBere -383	d 2
AND WELL LOCATION	well own 201 N M	ER MAD				<u> </u>		CITY Fort Wort		state TX	7610	ZIP)2
g	WELL			DEGREES			S		<u></u>	· · · · · ·		
AL/	LOCATIO	- F	LATTI		05	40.1	N	-	' REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A SEC	OND	
GENERAL	(FROM GI			ITUDE 103	53	32.2	W			· · · · · · · · · · · · · · · · · · ·		
1. GE				LE LOCATION TO STREET SW1/4 of Sectio					e) where available corner of a well p	ad.		
	LICENSE NU 331	IMBER		NAME OF LICENSED	DRILLER		· · ·		NAME OF WELL DRI SBQ Drilling, LL		PANY	
	DRILLING S 01-16-15				DEPTH OF COMPLE 805	TED WELL (FT)	BORE HOI ±805	LE DEPTH (FT)	DEPTH WATER FIRS	T ENCOUN	TERED (FT)	}
Z	COMPLETE	O WELL	1S: (ARTESIAN	O dry hole (SHALLOW (UNC) ONFINED)		STATIC WATER LEV	EL IN COM	PLETED WE	ELL (FT)
DIT	DRILLING F	LUID:	0		🖲 мир	ADDITIVES – SPI	CIFY:		I			<u></u>
RMA	DRILLING N	(ETHOD); (ROTARY	C HAMMER (CABLE TOOL	С отне	R - SPECIFY:				
NFO	DEPTH	(feet bg	gl)	BORE HOLE		ERIAL AND/OR		SING	CASING	CASINO	WALL	SLOT
CASING INFORMATION	FROM	T	0	DIAM (inches)	(include each d	ADE casing string, and ns of screen)	CONN	VECTION YPE	INSIDE DIAM. (inches)		INESS	SIZE (inches)
& C/	0	270		14.75	ASIM A53B		Welded	ł	8.625	0.322		ँड
	270	805		14.75	304 Stainless	Steel	Welded	t	8.625	0.25		£17,16
2. DRILLING	0	15		19	ASIM A53B				16	0.25	3	
DR											<u></u>	
6											2	
					<u> </u>				 		<u></u> N (
											<u>್</u>	
					· · · · · · · · · · · · · · · · · · ·	·····			u		<u>.</u>	n factor
	DEPTH	(feet by	gl)	BORE HOLE	LIST A	NNULAR SEAL MA	TERIAL A	ND	AMOUNT		METHO	
IAL	FROM	T		DIAM. (inches)	GRAVEL	PACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)		PLACEN	AENT
TER	0	120		14.75	Sand Mix Rea	-			90.36	gra	iv. tremi	ie meas.
WAT	120	170		14.75		ntonite Chips			35.90			le meas.
AR	170	805		14,75	6/9 Silica Sar	d			455.95	lr€	emie Pip	e
ANNULAR MATERIAL												
					······							
÷												
FOR	OSE RITER	NAT T		Renumbered 2	16.1-	2787-00	<u>^1</u>	117D ^	A WELL RECORD (9/2012)
FILE	NUMBER	INAL L	767	<u>reaumbere</u> a 7	a trom cr.	POD NUMBER	م د ر	WK-2	0 WELL RECORD & NUMBER $\zeta \zeta \zeta$	125 175	rsion 06/0	18/2012)
LOC	ATION	<u>25</u> 75	20.	28.334	3		rop .			143	PAGE	1 OF 2

•

	DEPTH (feet bgl)	THICKNESS	COLOR AN	ND TYPE OF MATERIAL ENCOUR	NTERED -	WATER	ESTIMATED YIELD FOR
	FROM	то	(feet)		ER-BEARING CAVITIES OR FRA(pplemental sheets to fully describe		BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	U	30	30	Cemented Sand,	light tan, sub-angular		OY ON	
	30	40	10	Sandy Silt, light b	prown, sub-angular	· · ·	OY ON	
	40	60	20	Sandy clay, reddi	ish brown	· · · · · · · · · · · · · · · · · · ·	OY ON	
	60	80	20	Silty Sand, light b	prown, sub-angular	i i	OY ON	
	80	250	170	Fine to Medium :	Sand, light tan, sub-angular t	to rounded	CYCN	
	250	260	10	Clayey Sand, bro	wn, sub-angular		CYCN	
OF WELL	260	320	60	Fine Sand, light t	an, sub-angular		● Y C N	
OF	320	380	60	Silty Sand, browr	nish gray, sub-angular		● Y C N	
	380	410	30	Fine Sand, dark g	aray, sub-angular		● ^Y C ^N	
ICI	410	530	120	Clayey Fine Sand	l, dark gray, sub-angular		● ^Y C ^N	
00	530	590	60	Sandy Clay, dark	gray, sub-angular		● Y O N	
EO	590	600	10	Clayey Fine Sand	l, dark gray, sub-angular		OY ON	
ROC	600	630	30	Sandy Clay, dark	gray, sub-angular		OY CN	
4. HYDROGEOLOGIC LOG	630	650	20	Clayey Sand, dar	k gray, sub-angular		OY CN	
4	650	700	50	Sandy Clay, dark	gray, sub-angular		OY ON	
	700	710	10	Clayey Sand, bro	wn and gray, sub-angular		O ^Y O ^N	· · · ·
	710	760	50	Sandy Clay, dark	gray, sub-angular		● Y O N	
	760	770	10	Clay, 75% gray, 2	5% red		O ^Y O ^N	
	770	780	10	Clay, 50% gray, 5	0% red			
	780	790	10	Clay, 25% gray, 7	'5% red		O ^Y C ^N	
	790	805	15	Sandy Clay, Gray	ish red, 10% white sand.			
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA: 🔿 PUMP		TOTAL ESTIMATED	700
	C AIR LIF		· · · · · · · · · · · · · · · · · · ·	OTHER - SPECIFY:			" LEE TIELE (gpil).	TBD
NO	WELL TES	T TEST	RESULTS - ATT I TIME, END TI	ACH A COPY OF DAT ME, AND A TABLE SI	FA COLLECTED DURING WELL HOWING DISCHARGE AND DRA	TESTING, INCL WDOWN OVER	UDING DISCHARGE N R THE TESTING PERIO	AETHOD, STA
TEST; RIG SUPERVISIO	MISCELLA	NEOUS INF	ORMATION:				Maja harris da da da barria da da	
PER	Pump te	st will be p	performed at a	a later time.	were placed by gravity and	بالانتصار والمتعار		
C SU	Hydrated	Bentonit	e Chips and S	and Mix Ready Mix	cwere placed by gravity and	tagged with	tremie pipe.	
ž								
EST	PRINT NAM	IE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVISION O	F WELL CONS	TRUCTION OTHER TH	AN LICENSEE:
5. T	Silverio G	ialindo, G	abriel Armijo,	Pedro Pizano			t,	X Sa
			· · · · · · · · · · · · · · · · · · ·					ге ц .
6. SIGNATURE	CORRECT	RECORD OF	F THE ABOVE D	ESCRIBED HOLE AN	EST OF HIS OR HER KNOWLED ID THAT HE OR SHE WILL FILE IPLETION OF WELL DRILLING:			
[GN		11.	-		11111	2	1 - 1	
6. S	ka	18	Han	Jce/	H. Stewart	2	-13-15	
	-	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME		DATE	
FOF	OSE INTER	NAL USE				WR-20 WELL	L RECORD & LOG (Ve	rsion 06/08/2012)
FIL	E NUMBER	(-383	2		POD NUMBER POD 2	TRN NUMBE	R 555125	
LOC	CATION 2	5.30.9	28.334	3				PAGE 2 OF 2

Locator Tool Report

General Information:

Application ID:27

Date: 05-28-2015

Time: 12:01:24

WR File Number: C-03782-POD1 Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD Applicant Last Name: RENUMBERED C-3832-POD2

> GW Basin: CARLSBAD County: EDDY

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 28, Township 25S, Range 30E.

Coordinate System Details:

Geographic Coordinates:

Latitude:	32 Degrees	5 Minutes	40.1 Seconds	Ν
Longitude:	103 Degrees	53 Minutes	32.2 Seconds	W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters)	N: 3,551,444	E: 604,526
NAD 1983(92) (Survey Feet)	N: 11,651,697	E: 1,983,348
NAD 1927 (Meters)	N: 3,551,243	E: 604,573
NAD 1927 (Survey Feet)	N: 11,651,036	E: 1,983,505

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 121,428	E: 206,630
NAD 1983(92) (Survey Feet)	N: 398,385	E: 677,920
NAD 1927 (Meters)	N: 121,410	E: 194,077
NAD 1927 (Survey Feet)	N: 398,327	E: 636,734

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





 WR File Number: C-03782-POD1
 Scale: 1:47,832

 Northing/Easting: UTM83(92) (Meter):
 N: 3,551,444
 E: 604,526

 Northing/Easting: SPCS83(92) (Feet):
 N: 398,385
 E: 677,920

 GW Basin: Carlsbad
 E: 604,526
 E: 677,920

Page 2 of 2

Print Date: 05/28/2015

National Wetlands Inventory

Intermittent 720 feet



December 11, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Released to Imaging: 4/25/2025 7:46:45 AM

National Wetlands Inventory

Pond 16,426 feet



Wetlands

Estuarine and Marine Deepwater

Released to Imaging: 4/25/2025 7:46:45 AM

- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Active & Inactive Points of Diversion

(with Ownership Information)

			(acre ft per annum)					and no	D has been replaced longer serves this file, file is closed)			ers are 1 ers are sr)	(NAD83 UTM	in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Y	Map	Distance
<u>C 04394</u>	CUB	MON	0.000	XTO ENERGY INC	ED	<u>C 04394 POD1</u>	NA				SW	NE	SE	19	25S	30E	602315.9	3553464.1		2,342.6
<u>C 03782</u>	CUB	EXP	0.000	BOPCO, L.P.	ED	<u>C 03782 POD1</u>				Artesian	SE	SW	SW	28	25S	30E	604525.7	3551444.2		2,522.1
<u>C 01360</u>	CUB	IND	0.000	EL PASO NATURAL GAS	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0		3,142.9
<u>C 03448</u>	с	PRO	0.000	DEVON ENERGY CORP.	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0		3,142.9
<u>C 03449</u>	с	PRO	0.000	OGX RESOURCES	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0		3,142.9
<u>C 04705</u>	CUB	MON	0.000	DEVON ENERGY	ED	<u>C 04705 POD1</u>	NA				NE	NW	NE	35	255	29E	598866.5	3551191.8		3,155.9
<u>C 01361</u>	CUB	IND	0.000	EL PASO NATURAL GAS	ED	<u>C 01361</u>				Shallow	SW	SE	SW	05	265	30E	603240.4	3548157.5		3,221.8
<u>C 03581</u>	CUB	EXP	0.000	JANEY LOREE PASCHAL	ED	<u>C 03581 POD1</u>				Shallow	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 03608</u>	С	PRO	0.000	DEVON ENERGY CORP.	ED	<u>C 03581 POD1</u>				Shallow	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 04612</u>	С	STK	3.000	JANEY LOREE PASCHALL DBA PASCHAL RANCH LLC	ED	<u>C 04612 C-3581</u>	NA				SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 03483</u>	с	STK	3.000	PASCHAL RANCH LLC	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4		3,676.5
<u>C 03501</u>	С	PRO	0.000	DEVON ENERGY CO.	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4		3,676.5
<u>C 03502</u>	с	PRO	0.000	DEVON ENERGY CO	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4		3,676.5
<u>C 03503</u>	С	PRO	0.000	DEVON ENERGY CO.	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4		3,676.5
<u>C 03483</u>	С	STK	3.000	PASCHAL RANCH LLC	ED	<u>C 03483 POD3</u>					SE	SW	SW	04	26S	30E	604557.8	3548291.0		3,814.1
					ED	<u>C 03483 POD2</u>						SW	SW	04	265	30E	604565.8	3548253.6		3,847.4
<u>C 04851</u>	CUB	MON	0.000	COG OPERATING LLC	ED	<u>C 04851 POD1</u>	NA				NW	NE	NW	24	255	29E	599946.3	3554519.9	•	3,966.4
<u>C 02441</u>	С	STK	0.000	BYRON W PASCHAL	ED	<u>C 02441</u>								21	25S	30E	605077.0	3553783.0 *		4,039.6
<u>C 04758</u>	CUB	MON	0.000	XTO ENERGY, INC.	ED	<u>C 04758 POD1</u>	NA				SE	SE	SE	17	25S	30E	604096.5	3554651.8		4,078.8
<u>C 04558</u>	CUB	MON	0.000	XTO ENERGY INC	ED	<u>C 04558 POD1</u>	NA				SW	SE	SW	23	25S	29E	598353.7	3553039.4		4,130.9
<u>C 04730</u>	CUB	MON	0.000	XTO ENERGY, INC	ED	<u>C 04730 POD1</u>	NA				SW	SW	NW	27	25S	30E	606032.8	3552256.2	•	4,163.2
<u>C 04529</u>	CUB	MON	0.000	XTO ENERGY INC	ED	<u>C 04529 POD1</u>	NA				NW	SW	NW	18	255	30E	601076.9	3555733.7	8	4,689.9
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	<u>C 04755 POD2</u>	NA				SE	NW	SW	12	26S	29E	599857.0	3546955.1		4,711.8
<u>C 04720</u>	CUB	EXP	0.000	DEVON ENERGY	ED	<u>C 04720 POD1</u>	NA				SE	NW	SW	12	265	29E	599807.3	3546968.8	•	4,722.7
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	<u>C 04755 POD1</u>	NA				SE	NW	SW	12	265	29E	599787.4	3546971.4	•	4,729.8
<u>C 04720</u>	CUB	EXP	0.000	DEVON ENERGY	ED	<u>C 04720 POD4</u>	NA				SE	NW	SW	12	265	29E	599812.4	3546955.0	•	4,732.5
					ED	<u>C 04720 POD2</u>	NA				SE	NW	SW	12	265	29E	599835.7	3546932.1	•	4,742.0
					ED	<u>C 04720 POD3</u>	NA				SE		SW					3546932.1		4,742.0
					ED	<u>C 04720 POD5</u>	NA				SE		SW		265			3546920.4	•	4,750.4
C 04755	CUR	MON	0.000	DEVON ENERGY	ED	<u>C 04720 POD6</u> <u>C 04755 POD3</u>	NA				SE SE				265 265			3546880.9	•	4,777.5
<u>C 04755</u>	COR	MON	0.000		ED	<u>C 04755 POD3</u>	INA				5E	INW	240	12	205	Zäf	399/4/.8	3340662.3	_	4,844.7

Record Count: 31

Filters Applied:

Received by OCD: 4/7/2025 2:09:53 PM

			ers are smallest					NAD83 UTM	in meters	
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	x	Y	Мар
	C 01360	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•
* UTM locati	on was derived	from PLSS -	see Help							

Driller License:	95	Driller Company:	FOLK DRILLING CO.		
Driller Name:					
Drill Start Date:	1952-04-26	Drill Finish Date:	1952-05-15	Plug Date:	
Log File Date:	1953-11-17	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	12.75	Depth Well:	770	Depth Water:	173

Water Bearing Stratifications:

Тор	Bottom	Description
210	220	Sandstone/Gravel/Conglomerate
580	585	Sandstone/Gravel/Conglomerate
665	710	Sandstone/Gravel/Conglomerate
725	770	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
180	289
538	770

Meter Information

Meter Number:	16557	Meter Make:	SIEMENS
Meter Serial Number:	L1254823	Meter Multiplier:	100.0000
Number of Dials:	8	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-07-01	2014	234997.000	А	RPT		0.000	
2014-09-30	2014	354169.000	А	RPT		36.573	
2014-11-20	2014	7281000.000	А	RPT		0.000	
2014-12-31	2014	11430100.000	А	RPT		12.733	
2015-04-01	2015	22535200.000	А	RPT		34.080	
2015-07-01	2015	35821800.000	А	RPT		40.775	
2015-10-05	2015	46631200.000	А	RPT		33.173	
2015-12-31	2015	55653200.000	А	RPT		27.688	
2016-01-31	2016	58047600.000	А	RPT		7.348	
2016-02-29	2016	61081100.000	А	RPT		9.309	
2016-03-31	2016	62593100.000	А	RPT		4.640	
2016-06-30	2016	71642600.000	А	RPT		27.772	
2016-10-03	2016	81998399.000	А	RPT		31.781	
2016-12-31	2016	90558600.000	А	RPT		26.270	
2019-04-04	2019	164290087.000	А	RPT		226.274	
2019-10-02	2019	790380.000	А	RPT	METER CHANGE OUT 07/2019	0.000	
2020-01-02	2020	1733720.000	А	RPT		289.500	
2021-04-07	2021	36814117.000	А	WEB		10765.779	Х
2021-07-27	2021	36836238.000	А	WEB		6.789	Х
2021-10-04	2021	36844496.000	А	WEB		2.534	Х
2021-12-31	2021	36847463.000	А	WEB		0.911	Х

YTD Meter Amounts:

Year	Amount
2014	49.306
2015	135.716
2016	107.120

Received by OCD: 4/7/2025 2:09:53 PM

Year	Amount
2019	226.274
2020	289.500
2021	10776.013

Meter Information

Meter Number:	16558	Meter Make:	MASTERMETER
Meter Serial Number:	32530403	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-10-01	2014	354169.000	А	RPT		0.000	
2014-11-20	2014	415555.000	А	RPT		18.839	
2014-11-21	2014	72810.000	А	RPT		0.000	
2014-12-31	2014	112178.000	А	RPT		12.082	
2015-02-01	2015	147039.000	А	RPT		10.698	
2015-03-02	2015	188133.000	А	RPT		12.611	
2015-04-01	2015	224102.000	А	RPT		11.038	
2015-04-30	2015	270723.000	А	RPT		14.307	
2015-05-31	2015	315628.000	А	tw		13.781	
2015-07-01	2015	369075.000	А	tw		16.402	
2015-08-01	2015	395528.000	А	tw		8.118	
2015-08-31	2015	455361.000	А	tw		18.362	
2015-10-01	2015	466312.000	А	RPT		3.361	

YTD Meter Amounts:
Received by OCD: 4/7/2025 2:09:53 PM

Year	Amount
2014	30.921
2015	108.678

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 8:01 AM MST

Point of Diversion Summary

2		v	VR File N	umbe	e r: (01360				5	ubbasir	n:	CUB	Cros	s Referen	ice:		
g <u>et imag</u> list	<u>ige</u>	P	Primary P	urpos	ie: IN	ID IND	USTRI/	4L										
<u>1150</u>		P	rimary S	atus:	D	CL Dec	laratio	n										
		Т	otal Acre	s:	0.	000				s	ubfile:			Hea	der:			
		Т	otal Dive	rsion:	: 0.	000				с	ause/C	ase:						
		c	Owner:		EL	_ PASO	NATU	RAL GAS										
		c	Contact:		P/	AULA JO	YC											
Docum	ients (on File	,														(acre-fe	et per annum)
Transac Images		Trn #	Doc	F	File/Act		Statu: 1	s Statu 2		ansacti	on Desc	с.			From/To	Acres	Diversion	Consumptive
		<u>460091</u>	COWN	IF 2	2010-05	-26	CHG	PRC	C	01360					т	0.000	0.000	
															т	0.000	0.000	
Current	t Poin	203459 hts of D	DCL Diversio		1953-11	-17	DCL	PRC	C	01360								
POD Nu	umber		Diversic Tag So	n urce	Q64	Q1	6 Q	4 Sec	Tws	Rng		996.6	Y	:152.0	Мар		cation Desc	,
POD Nu <u>C 01360</u>	umber	uts of D Well	Diversic Tag So Sh	n urce allow	Q64 SE		6 Q	4 Sec				996.6		3152.0				, ,
POD Nu <u>C 01360</u>	umber	uts of D Well	Diversic Tag So Sh	n urce allow	Q64 SE	Q1	6 Q	4 Sec	Tws	Rng		996.6		152.0	Мар			, , , , , , , , , , , , ,
POD Nu <u>C 01360</u> * UTM loc	umber <u>)</u> cation w	nts of D Well ⁻	Diversic Tag So Sh	n urce allow	Q64 SE	Q1	6 Q	4 Sec	Tws	Rng		996.6		3152.0	Мар			· · · · · · · · · · · · · · · · · · ·
POD Nu <u>C 01360</u> * UTM loc	umber <u>)</u> cation w	nts of D Well ⁻	Diversic Tag So Sh d from PLS	n urce allow S - see	Q64 SE Help	Q1	6 Q	4 Sec W 05	Tws	Rng		996.6 Priorit	3548	1152.0 tatus	Map		cation Desc	· · · · · · · · · · · · · · · · · · ·
POD Nu <u>C 01360</u> * UTM loc Place O	umber 2 cation w of Use	nts of D Well ⁻	Diversic Tag So Sh d from PLS	n urce allow S - see	Q64 SE Help	Q1 SW	6 Q	4 Sec	Tws 265	Rng 30E	602		3548 y S		Map • Other I	Other Lo	cation Desc	· · · · · · · · · · · · · · · · · · ·
POD Nu <u>C 01360</u> * UTM loc Place O' Q256	umber 2 cation w of Use Q64	nts of D Well ⁻	Diversic Tag So Sh d from PLS	n urce allow S - see	Q64 SE Help	Q1 SW	6 Q 51 Acre	4 Sec	Tws 265	Rng 30E	602 Use		3548 y S	tatus	Map • Other I	Other Lo	cation Desc	
POD Nu <u>C 01360</u> * UTM loc Dlace O Q256	umber 2 cation w of Use Q64	vits of D Well ¹ vas derived	Diversic Tag So Sh d from PLS	n urce allow S - see	Q64 SE Help	Q1 SW	6 Q S1 Acre	4 Sec	Tws 265	Rng 30E	602 Use		3548 y S	tatus	Map • Other I	Other Lo	cation Desc	
C 01360 * UTM loc Place o Q256	umber	vits of D Well ¹ vas derived Q16	Diversio Tag So Sh d from PLS Q4 S	n urce allow S - see ec	Q64 SE Help	Q1(SW	6 Q S1 Acre	 4 Sec W 05 s Dive 0 0.000 	Tws 265	Rng 30E	602 Use		3548 y S	tatus	Map • Other I	Other Lo	cation Desc	

12/11/24 7:54 AM MST

Water Rights Summary

Water Right Summary

	WR File	e Number:	: C 034	48							Su	bbasin:	С	Cross	Reference:
<u>get image</u> list	Primar	y Purpose	: PRO 7	72-12-	1 PROSP	ECTING	OR DE	VELOPN	1ENT OF NAT	URAL RESOU	RCE				
	Primary	y Status:	PMT F	Permit											
	Total A	cres:									Su	bfile:		Heade	r:
	Total D	iversion:	0.000								Ca	use/Case:			
	Owner:	:	DEVO	N ENI	ERGY CO	RP.									
	Contact	t:	SCOT	T GRE	GORY										
Oocuments or Transaction Images	n File Trn #	Doc	File/Act		Status 1	Statu 2		ansactic	on Desc.		From/To	o Acres	Div	(acre-fee	t per annum) Consumptiv
💮 _get images	<u>461570</u>	72121	2010-06-	-29	PMT	APR	C)3448			Т		3.00	00	
Current Points	s of Dive	rsion													
POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	x	Y	Мар	Other Loo	ation	Desc	
		Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0					
<u>C 01360</u>															
<u>C 01360</u> * UTM location was	derived from	n PLSS - see	e Help												

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 8:07 AM MST

Water Rights Summary

Water Right Summary

Z	WR File	Number	C 0344	.9							Su	ıbbasin:	С	Cross I	eference:
g <u>et image</u> list	Primary	/ Purpose	: PRO 72	2-12-1	PROSP	ecting	OR DE	VELOPIN	1ENT OF NAT	URAL RESOU	RCE				
	Primary	/ Status:	PMT Pe	ermit											
	Total A	cres:									Su	ıbfile:		Heade	:
	Total D	iversion:	0.000								Ca	ause/Case:			
	Owner:		OGX R	esour	CES										
	Contac	t:	SCOTT	GREG	ORY										
Documents on Transaction Images	Trn #	Doc	File/Act	S 1	itatus	Statu 2		ansactic	on Desc.		From/To	o Acres	Div	(acre-fee	: per annum) Consumptive
🞯 <u>get images</u>	<u>461594</u>	72121	2010-06-2	29 E	XP	EXP	C ()3449			Т		3.00	00	
•															•
Current Points	s of Dive	rsion													
Current Points POD Number	of Dive Well Tag	rsion Source	Q64	Q16	Q4	Sec	Tws	Rng	x	Y	Мар	Other Loc	ation	Desc	
				Q16 SW	Q4 SW	Sec 05	Tws 265	Rng 30E	X 602996.6	Y 3548152.0	Map	Other Loc	ation	Desc	
POD Number	Well Tag	Source Shallow	SE	_				-				Other Loc	ation	Desc	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 8:08 AM MST

Water Rights Summary



Released to Imaging: 4/25/2025 7:46:45 AM

U.S. Fish and Wildlife Service National Wetlands Inventory

Wetland 12,393 feet



December 11, 2024

Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

- ne Wetland
- Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Page

41

of 338

Salt Mine 46,820 feet



12/11/2024, 10:47:54 AM **Registered Mines**

- × Aggregate, Stone etc.
- \times Aggregate, Stone etc.

 \bigtriangleup Salt

PLSS Townships



Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, BLM

EMNRD MMD GIS Coordinator

Released to Imaging: 4/25/2025 7:46:45 AM NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

Brushy Draw 30-31 Fed Battery

Shanghai Rooster Pads

Karst Potential

Legend

Brushy Draw 30-31 Fed Battery Release

Page 43 of 338

- High Karst Potential
- Medium Karst Potential
- Nearest High Karst 20,253 feet (3.84 miles)
- Nearest Medium Karst 6,050 feet (1.15 miles)

(Brushy Draw 30-31 Fed Battery Release



Image © 2024 Airbus

Received by OCD: 4/7/2025 2:09:53 PM National Flood Hazard Layer FIRMette



Legend

Page 44 of 338



Basemap Imagery Source: USGS National Map 2023





USDA United States Department of Agriculture

> Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Received by OCD: 4/7/2025 2:09:53 PM



Released to Imaging: 4/25/2025 7:46:45 AM

•

Custom Soil Resource Report

MA	P LEGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AC	I) Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soil Map Unit Polyg	Wet Spot	Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause
Soil Map Unit Points Special Point Features OBlowout		misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.
Borrow Pit Clay Spot	Transportation +++ Rails	Please rely on the bar scale on each map sheet for map measurements.
Closed Depression Gravel Pit Gravelly Spot	 Interstate Highways US Routes Major Roads 	Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
 Marsh or swamp Mine or Quarry 	Local Roads Background Aerial Photography	Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
 Miscellaneous Wate Perennial Water 	r	This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
Rock Outcrop Saline Spot Sandy Spot		Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024
 Severely Eroded Sp Sinkhole 	ot	Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Feb 7, 2020—May
Slide or Slip		The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background
		imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (11. Bushy Draw 30-31 Soil Type)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	3.7	100.0%
Totals for Area of Interest		3.7	100.0%

Map Unit Descriptions (11. Bushy Draw 30-31 Soil Type)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet Mean annual precipitation: 5 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand *H2 - 9 to 72 inches:* fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Wink

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Cacique

Percent of map unit: 4 percent Ecological site: R070BD004NM - Sandy Hydric soil rating: No

Kermit

Percent of map unit: 3 percent Ecological site: R070BD005NM - Deep Sand Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

All Ecological Sites — (12. Bushy Draw 30-31 Ecological)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.

Received by OCD: 4/7/2025 2:09:53 PM



•

MAP LEGEND	MAP INFORMATION
Area of Interest (AOI)	The soil surveys that comprise your AOI were mapped at
Area of Interest (AOI)	1:20,000.
Soils	Warning: Soil Map may not be valid at this scale.
Soil Rating Polygons	
	Enlargement of maps beyond the scale of mapping can cause
Not rated or not available	misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of
Soil Rating Lines	contrasting soils that could have been shown at a more detailed
R070BD003NM	scale.
Not rated or not available	
Soil Rating Points	Please rely on the bar scale on each map sheet for map
R070BD003NM	measurements.
Not rated or not available	Source of Map: Natural Resources Conservation Service
Water Features	Web Soil Survey URL:
Streams and Canals	Coordinate System: Web Mercator (EPSG:3857)
Transportation	Maps from the Web Soil Survey are based on the Web Mercator
+++ Rails	projection, which preserves direction and shape but distorts
nterstate Highways	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
US Routes	accurate calculations of distance or area are required.
	This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
Local Roads	of the version date(s) listed below.
Background	Soil Survey Area: Eddy Area, New Mexico
Aerial Photography	Survey Area Data: Version 20, Sep 3, 2024
	Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.
	Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020
	The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Ecological Sites by Map Unit Component (12. Bushy Draw 30-31 Ecological)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes,	Berino (60%)	R070BD003NM — Loamy Sand	3.7	100.0%
	eroded	Pajarito (25%)	R070BD003NM — Loamy Sand		
		Cacique (4%)	R070BD004NM — Sandy		
		Pajarito (4%)	R070BD003NM — Loamy Sand		
		Wink (4%)	R070BD003NM — Loamy Sand		
		Kermit (3%)	R070BD005NM — Deep Sand		
Totals for Area of In	terest			3.7	100.0%

Conservation Service

USDA Natural Resources

Ecological site R070BD003NM Loamy Sand

Accessed: 09/02/2024

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are: Maljamar Berino Parjarito Palomas Wink Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Released to Imaging: 4/25/2025 7:46:45 AM

Received by OCD: 4/7/2025 2:09:53 PM

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus, S. contractus, S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



1a. Drought, over grazing, fire suppression.

1b. Brush control, prescribed grazing

Severe loss of grass cover, fire suppression, erosion.
 Brush control, seeding, prescribed grazing.

3. Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

Received by OCD: 4/7/2025 2:09:53 PM

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
()	0	3	5	10	10	25	30	12	5	0	0

State 2 Grass/Shrub

Community 2.1 Grass/Shrub Grass/Shrub



 Black grame/Mesquite community, with some dropseeds, threenous, and scattered sund shimony oils Ones cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

Received by OCD: 4/7/2025 2:09:53 PM

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			61–123	
	little bluestem	SCSC	Schizachyrium scoparium	61–123	_
2	Warm Season			37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season		·	37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season			123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season			123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season			123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine				
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	-
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	•		61–123	
			· · · · · · · · · · · · · · · · · · ·		

Released to Imaging: 4/25/2025 7:46:45 AM

Received by OCD: 4/7/2025 2:09:53 PM

13. Bushy Draw 30-31 Geology



11/18/2024, 2:41:54 PM

Lithologic Units

Playa—Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)

Released to Imaging: 4/25/2025 7:46:45 AM



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global

ArcGIS Web AppBuilder

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

APPENDIX B – Daily Field and Sampling Report(s)

APPENDIX C – Laboratory Data Report(s) and Chain of Custody Form(s)



February 19, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received: Reported: Project Name: Project Number:	02/17/2025 02/19/2025 BRUSHY DRAW 30-31 FEDERAL BATTER` 25E-00017 (SOUTH)	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	02/15/2025 Soil Cool & Intact Tamara Oldaker
Project Location:	XTO	Sample Received by.	

Sample ID: BS 25 - 01 1.5' (H250927-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother this subsidiaries, afflictes or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 02 1.5' (H250927-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	72.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother this subsidiaries, afflictes or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 03 1.5' (H250927-03)

BTEX 8021B Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	190	94.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	171	85.4	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	90.2 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother this subsidiaries, afflictes or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 04 1.5' (H250927-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	80.7 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	78.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 05 1.5' (H250927-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	86.0 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	84.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 06 1.5' (H250927-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.20	110	2.00	1.89	
Toluene*	<0.050	0.050	02/17/2025	ND	2.28	114	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.24	112	2.00	2.79	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.61	110	6.00	2.84	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 07 1.5' (H250927-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 08 1.5' (H250927-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Reported:02/19/2025Project Name:BRUSHY DRAWProject Number:25E-00017 (St	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA	CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220					
Received:	02/17/2025	Sampling Date:	02/15/2025				
Reported:	02/19/2025	Sampling Type:	Soil				
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact				
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker				
Project Location:	ХТО						

Sample ID: BS 25 - 09 1.5' (H250927-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 10 1.5' (H250927-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 11 1.5' (H250927-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 12 1' (H250927-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received: Reported: Project Name: Project Number: Project Location:	02/17/2025 02/19/2025 BRUSHY DRAW 30-31 FEDERAL BATTER` 25E-00017 (SOUTH) XTO	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	02/15/2025 Soil Cool & Intact Tamara Oldaker

Sample ID: BS 25 - 13 1' (H250927-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 14 1' (H250927-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 01 0-1.5' (H250927-15)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 02 0-1.5' (H250927-16)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6700	16.0	02/18/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	86.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 03 0-1.5' (H250927-17)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/18/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 04 0-1.5' (H250927-18)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/18/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 05 0-1.5' (H250927-19)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/17/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/17/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/18/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 06 0-1.5' (H250927-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/17/2025	Sampling Date:	02/15/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 07 0-1' (H250927-21)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/18/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	RelinquintegBy:	PLEASE NOTE: Lability and Danie completion of the applicable service atfliates of successors arriving or	2	90	2	6	a	4	cu ou	2	1	Heso927	l ah I D	FOR LAB USE ONLY	Some Location.	Project Name: Bi	Project #: 25E-00017	Phone #:	City: Carisbad
- Other:	W	and a	KEASE NOTE: Lability and Damages: Constraint's lability and client's and completion of the applicable service. In no event shall Coadmak be its efficience of successors almong out of or instract for the instrumentor.	BS25-09 1.5'	BS25-08 1.5'	BS25-07 1.5'	BS25-06 1.5'	BS25-051.5	BS25-04 1.5	3 BS25-03 1.5'	BS25-02 1.5'	BS25-01 1.5'	Sample I.D.		. Pullman		Project Name: Brushy Draw 30-31 Federal Battery - South	017	575.725.5001	State: NM
Observed Temp. °C Corrected Temp. °C 4	Date: 1230 Time:	Time: Date: 1-17-18 Received By	C 1 C										I.D.				ieral Battery - South	Project Owner: Colton Brown	5001 Fax #:	Zip: 88220
01	Received By:	Received By	C based in car	С	0	0	0	0	0	0	C	C	(G)RAB OR (C)OMP.					ner: Co		
	ived B	ived E	1 I I I I I I I I I I I I I I I I I I I	-	-	-	-	-	-	-	1		# CONTAINERS	_				olton		
Sample Condition Cool Intert	Y	SV.	of imitado		-	+	-	-	-	-	-	_	GROUNDWATER WASTEWATER					Brown		
Sample Cond Cool Intert		based up	the N	Х	×	×	×	×	×	×	X	X	SOIL	MATRIX				-		
dition	2	o fae oo	X And to the emount peed by the bushness mismuptions, loss		+	+	+	+	+	+	-	-	DIL SLUDGE	RIX						
-		A sport	peed by the		7	+	4	1	1	1			OTHER :		Fax #:	Ph	Sta	Cit	Ad	At
4 9			e client for the	-	+	+	+	+	+	+	-	-	CID/BASE:	PRESERV.	*	one #	State:	y: Ca	dress	th: Co
CHECKED BY: (Initials)			the ana				1	1	1	1		Ċ	DTHER:	ERV.		: 575	NM	City: Carlsbad	5: 310	olton
D BY: Is)		- Me	02.15.25 analyses Al claims as of profils incurred	02.15.25	02.15.25	021525	02 15 25	02.15.25	02.15.25	02.15.25	02.15.25	02.15.25	DATE	SAN		Phone #: 575-988-2390	Zip:	٩	Address: 3104 E. Greene St	Attn: Colton Brown
Turnaround Tipe: Stands Runa (E) Coor Int Thermometer ID	Ludvik (ALudvik@vertexresource.com) REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2500254282	Verbal Result: Ves No Add'i Phone #: All Results are emailed. Please provide Email address: Chad Hensley (CHensley@vertexresource.com). Lakin Pullman (I nullman@vertexresource.com).	by class		1		1			T		+		SAMPLING			88220		ne St	
Standa Coel Inti Coel Inti tor -0.5 C	Direct E	It: re emai	8	×		~	~			.,		~	B	TE	EX.	(80	21)	_	_	_
Standard D	artexreso aill to XTC	Yes [led. Plea	N N	~	~	< >	~					-	TPH:8015D	-	_	-	-)/N	ARC	0)
Bacteria (or) Energy,	No Se provid	N N	×	~ >	< >	~ ~	<>	< >			~		C	hloi	ride		-	-	_
Bacteria (only) Sample Condition red Temp. "C	Inc., Cos	e Email a	ver shall be qu																	
Condition	t Center	Add'l Phone #: address:	eemed wawed	+	+	+	+	+	+	+	+	+		_	_					
09 19 19 19 19 19	#: 2027	ine #:	d unless made in	-		1	1	1				1	_				_			
	691371		- 6																	
Connected Temp. "C	, Incide		ding and rece							1										
ő	ertexre		prived by Cardinal																	
	APP25		ardna w	1	t	t	t	t	t	t	t	t		-	-	-		-	-	-
	002542		thin 30 days	+	t	t	t	t	t	t	+	+		-		-	-	_	-	-
	And 82		S after	+	-		1	1		1	1									

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

48-hour Rush

ARDINAL

oratories

City: Carlsbad

P.O. #:

BILL TO

ANALYSIS REQUEST

Company: XTO Energy, Inc.

Address: 3101 Boyd Drive Project Manager: Chad Hensley Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

City: Carlsbad State: NM Phone #: 575.	Zip: 88220 575.725.5001 Fax #:									A At G	res	olto	DO DE X	Address: 3104 E. Greene St	Inc.			RO)
Project #: 25E-00017	Project (Project Owner: Colton Brown	olto	Br	OWT	-			-	Sity	0	arls	City: Carlsbad					D/N
Project I continue	or i operal patter y - opau									State:	e:	Z	NM	Zip:	00	88220		21)
									- 77	oho	ne	#	75-	Phone #: 575-988-2390			80	-
Sampler Name: L. Pullman									-	Fax #:	#						X (_
Lab I.D.		-		П	-11	MA	MATRIX	-1^		-	PRESERV.	- Ĥ	1	SAMPLING	그 꼰	ING	BTE	BTE
607	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	DIL	SLUDGE	OTHER :	CID/BASE:		CE / COOL	THER	DATE		TIME		
// BS25-11 1.5'	51	0	-	0	V	N	c	_	0		-			10 15 25	-	8.40	-	~
12 BS25-12 1'		С	-			×	+	1	+	+	+	+		02.15.25	-	9:35	9:35 X	+
13 BS25-13 1'		0	1			×	+		+	+	+	+		02.15.25	-	9:40	+	~ `
14 BS25-14 1'		С	1			×			-	-	-	-		02.15.25	-	9:45	+	X
// WS25-02 0-1-5	12	20	-	Т			+	T	+	+	+	+		02.15.25		8:10	8:10 X	
17 WS25-03 0-1.5	1.5'	0	-			\times			+	+	+	+	-	02.15.25		8.35	V-35 X	+
T	1.5'	С	-			×			-	-	+	+	\rightarrow	02.15.25	~	8:55	+	~
19 WS25-05 0-1.5	1.5	С	-			×					-	-	-	02.15.25	9	9:00	-	x
PLEASE NOTE: Labeling of Decouper Classifications and the applicable service. In role event shall Cardina competition of the applicable service. In no event shall Cardina milliades or successors arising out of initiated to the performa-	Ta techasile lemedy for any class If the liable for incidental or con ance of services hereunder by	the based in co damages, inclu egardiess of w	I contract to lost Suding without whether such	lint s	shall be i	, busi	d to the union	any o	paid a	by the		0.0	In paid by the clent for the analy numbers, koss of use, or loss of of the above stated researce or	Image weather based in orderate is what in the whore plant by the devir for the analyses. All claims including those for negle sequencial damages, including weather investigation, based was any of the above, for one of orderate carried by claims, is subsidiaries. O2.15.25 9:05 sequencial damages, including weather investigation, based must plant by the devir for the analyses. All claims including these for negle cardinal, ingatives and whether such claims is based using any of the above stated measures in devines. O2.15.25 9:05 O3.05 Cardinal, ingatives of whether such claims is based using any of the above stated measure. index into the such claims. index into the such claims. index into the such claims.	N See	9:05 g Bloss for n	9:05 X Diose for negligence and this subsidiaries.	10.0
Add AND AND	Time:	Rece	ived	By			1	0	1	14	01	20	R	A l	Verba Please Chad	l Resu Emai	Verbal Result:	Verbal Result: Image: Verbal Result: Please Email Results: Image: Verbal Results: Chad Hensley (Chensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Indvik (All university and the second se
Delivered By: (Circle One) Samular . I IPS - Bus - Other		ST Sa	Ived	Sa Sa	sy: Sample Condition	eCo	ondi	tion	1		9	5	Ā	1-1	REMA	RKS:	RKS: Direct B	Standard
Sampler - UPS - Bus - Other:	Corrected Temp. *C Corrected Temp. *C	40			Sample Cond Cool Intact	nple Cond ol Intact Yes Yes	to in ct di	tion		1	4 9	' 👌 🖻 🖻	(Initials)	BY:	Turnapung Tere Ruan Ruan Thermometer II Correction Fact	neter I	31 0	Cool Inter Ob Preter ID - MTS #14
FORM-006 R 3 2 1007/21	t Can	linal can	not	acce [ptv	erb	a	ha	lge	S. P	lea		e	se ema	se email change	correction Fac	Correction Factor	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

48-hour Rush

1/3

RDIN

ioratories

Address: 3101 Boyd Drive Project Manager: Chad Hensley

Company: XTO Energy, Inc.

P.O. #:

BILL TO

ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

DOF ALLOPICS 101 East Marland, Hobbs, WM 8240 (275) 393-2326 FAX (FS) 593-2476 BLL TO Memory College FAX (FS) 593-2476 BLL TO For Resource Services (Direct Bill to XTO Energy, Inc.) Direct College Bill to XTO Energy, Inc.) BLL TO Company: XTO Energy, Inc.) 55.725.5001 Fax #: Poject Owner: College Brown Coll #: College College Brown Direct Owner: College Brown College College Brown College College Brown Sample LD. Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman Marces: 3104 E. Greene 3 Site: NM. Zp: 8220 Site: NM. Zp: 8220 Iman GRADUE Site: Coll Dig Coll ALL Dig C		Sampler - UPS - Bus - Other: FORM-006 R 32 10/07/21	Relinquished By:	Relinguisbed By:	arising o	PLEASE NOTE: Liability and Dama					2	2	TE	Lab I.D.	FOR LAB USE ONLY	rivject Location:	Project Name: Br	Project #: 25E-00017	Phone #:	City: Carisbad	City Colot-1 City City	Address: 3404 Bo	Design Manager	Company Namo-		
Barbonic BILL TO Energy, Inc.) FILL TO Energy, Inc.) PLL TO Colton Brown Company: XTO Energy Address: 3104 E. Green Address: 3104 E. Green State: NM ZIP: Phone #: 575-988-2390 Fax #: Phone #: 575-988-23		her: 0/07/21			In no event shall Cardinal be liable or related to the performance of se	billy and client's exclusion					1-0-1-0-1	WS25-07 0-11	Sample I.D		Puliman		ushy Draw 30-31 Federal	017		State: NM		chad Hensley	Vertex Resource Service	101 East Mari (575) 393-23	aborato	1701
Barbon Bill To 2476 Energy, Inc.) Bill To Energy, Inc.) PLL To Collon Brown Company: XTO Energy Address: 3104 E. Green Address: 3104 E. Green State: NM Zip: Phone #: 575-988-2390 Fax #: Phone #: 575-988-2390 Fax #: Fax #: Visit GROUNDWATER PRESERV. Sample Condition Suborget Coll II GROUNDWATER OIL DGGE Visit Green OIL DGGE		rected Temp. °C 3.	OT	S	nodental or consequental demag is hereunder by Cardinal, regards	wdy for any cause areary whether tax											Battery - South	Project Owne	Fax #:	Zip: 88220			s (Direct Bill to XTC	and, Hobbs, NM 8 126 FAX (575) 393-	ories	A I L
BILL TO P.O. #: Company: XTO Energy Address: 3104 E. Green Mattn: Colton Brown Address: 3104 E. Green Phone #: 575-988-2390 Fax #: MATRIX PRESERV. SOIL SOIL SOIL Presserv. SOIL N OIL SOIL OIL SOIL OTHER: N OTHER: N OTHER: N OTHER: DATE N OTHER: DATE N OTHER: N OTHER: DATE N OTHER: DATE N OTHER: N OTHER: N N <	canno	01	Receive	Receive	ess of wheth	sed in contrax		-	\square		-	1					>	er: Colt					0 Energ	88240 -2476		
BILL TO P.O. #: Company: XTO Energy Address: 3104 E. Green Address: 3104 E. Green Rath: Colton Brown Address: 3104 E. Green State: NM Zip: Fax #: PRESERV. SOIL SOIL SOIL Fax #: PRESERV. N OIL SUDDGE Intact Intact <	tacce		ed By:	ed By	whout is		H		$^{++}$	++	++			Г				on Br					IV, Inc			
BILL TO ANALYSIS REQUEST P.O. F. Company: XIC Glergy, Inc. P.O. F. Address: -Silva Brown Silva: "NM 720" Silva: "NM 720" PROM: PROM: N N No. N N N No. No. N N No. No. N <td< td=""><td>ept ve</td><td>mple</td><td></td><td>57</td><td>mitadion, I aim is ba</td><td></td><td>-</td><td>-</td><td>Ħ</td><td>\mp</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>UM0.</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></td<>	ept ve	mple		57	mitadion, I aim is ba		-	-	Ħ	\mp		-						UM0.					-			
EILL TO ANALYSIS REQUEST PO.R: Company: XTO Energy, Inc. Address: SMAE Energe State: NM_ZE Prover N N N Prover State: NM_ZE Prover N N N	rbal o	Condi ntact Tes	9	5	AD DE D	lad to file	-	+	++	++	×	1		ATRI												
BILL TO ANALYSIS REQUEST Ionguany: XTO Energy, Inc. Inc. Attr: Colton Brown Inc. State: NM Zib: 88220 Inc. Colton Brown BTE State: NM Zib: 88220 Inc. Colton Colton BTE Inc. Colton Brown BTE Inc. Colton Brown BTE Inc. Colton Colton BTE Inc. Colton Colton BTE Inc. Colton Colton Chloride Inc. Colton Brown Inc. Colton Colton Inc. Colton Brown Inc. Colton Colton Inc. Inc. Colton Brown Inc. Inc. Colton Brown	hang	tion	2									_		ľ												
EILL TO ANALYSIS REQUEST "nowny: XTO Enrowp. Inc. ::::::::::::::::::::::::::::::::::::	les. P	1	R	~	e above		+	+	++			-		1	Fax	Pho	Stat	City	Add	Attr	Cor	P.O				
BILL TO ANALYSIS REQUEST :N/D Energy, Inc. on Brown Stable Stable Energy and Stable Stable Energy and Stable Energy and DATE Stable Inc. (Stable Energy and DATE Image: Stable Time DATE Stable Inc. (Stable Energy and DATE Image: Stable Time DATE Stable Inc. (Stable Energy and DATE Image: Stable Time DATE Image: Stable Time DATE Image: Stable Time DATE Image: Stable Timage: Stable Time DATE Image: Stable T	lease	'C = HE		0	of use, or stated res			-				10	CE/COOL	RESEF	.#	ne #:		Carl	ress:	: Colt	npany	*				
L TO ANALYSIS REQUEST Tomm E. Greene 8: E. Greene 8: BTEX (8021) SMPLING BTEX (8021) NA Non-Norther State N N N N N N N N N N N N N N N N N N N	emai	CKED		2	In Early		+	-	\square			∔	DTHER	RV.		575-9		sbad	3104	ton B	: XTC		BIL			'H'
ANALYSIS REQUEST Integradies of the second sec	il changes (RITO	प्राह	solita incurred by a solution						02.15.25	the second	DATE	SAMPL					E. Greene	rown	D Energy, Ir					AIN-OF-
ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST N N N N N N N N N N N N N N N N N N	to celey.kee	ermometer ID	had Hensley Jdvik (ALudv EMARKS: Di	ease Email F	sang trose for negi Sent, its subsidiarie						9:30	TIME	TIME	ING			88220		St		nc.					CHAIN-OF-CUSTODY A
AMALYSIS REQUEST AMALYSIS REQ	me@o	0	(CHen ik@ve irect B	Results	gence an						X	Γ	В	TI	EX	(80)	21)		-	-	-					N
ANALYSIS REQUEST ANALYSIS REQUEST Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chlo	ardinalla	the off	sley@vert rtexresour ill to XTO	Yes	d any offner cau						X		TPH:8015D)(0	GRC	1	DRO)/N	IRC))						AND
ANALYSIS REQUEST ANALYSIS REQUEST Image: Comparison of the second state of the second s	lbsnm.co	9 4	exresourc <u>ce.com)</u> Energy, In	No	se whatsoever		-				X		_	С	hlor	ide	1									ND ANALYSIS REQUEST
SIS REQUEST	m	/ Sample C	e.com), c., Cost	Ad	shall be dee	-	+	\square	-			_		_	_						_		INALY			YSIS
REQUEST Image: State of the sta			Cente	d'I Ph	med way	+	+	+	-	++		_		_		_					_		SIS			R
VUEST		No 0	Pullma r#: 20	one #:	ed unless																		REC			ğ
ST		Ne c	an (Lp 27691		s made in		T	Ħ				-		-		-		-	-	-	-	-	UE		- 6	JES
remp. "C		orrected	ulimar 371, In		a Dupon	+	+	+	+			-		-		_		-		_	_	-	۲į			-
estor Cardeal write 30 days after t #: nAPP2500254282			n@ver		nd receiv	+	+	+	+	++		-		_		_		_		_	_	_				
PP2500254282			t#: nA		ed by Ca																					
com), Andr			PP25		rdeal we												-	-		-		-				
Andra attr			.com)		10 ST 60	+	\uparrow	\uparrow	+					-	-	-	-			-	_	-				
		_	Andra 82		N BR	+	+		+			_		_	_				_	_						

to-hour Rush



February 24, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 14:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО	-	

Sample ID: BS 25 - 15 1.5' (H251017-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	24						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	10						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received: Reported: Project Name:	02/20/2025 02/24/2025 BRUSHY DRAW 30-31 FEDERAL BATTER`	Sampling Date: Sampling Type: Sampling Condition:	02/19/2025 Soil Cool & Intact
Project Number: Project Location:	25E-00017 - SOUTH XTO	Sample Received By:	Tamara Oldaker

Sample ID: BS 25 - 16 3' (H251017-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 17 3' (H251017-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 18 1.5' (H251017-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 19 1.5' (H251017-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 20 3' (H251017-06)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	yzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 08 0-1.5' (H251017-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 09 0-1.5' (H251017-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 10 0-3' (H251017-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 11 0-3' (H251017-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 12 1.5-3' (H251017-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	1.85	92.7	2.00	0.794	
Toluene*	<0.050	0.050	02/21/2025	ND	2.10	105	2.00	7.79	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	10.1	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.98	116	6.00	10.9	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ND 432 108 400 d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	105 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 13 1.5-3' (H251017-12)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	1.85	92.7	2.00	0.794	
Toluene*	<0.050	0.050	02/21/2025	ND	2.10	105	2.00	7.79	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	10.1	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.98	116	6.00	10.9	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	102	48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 14 0-1.5' (H251017-13)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	1.85	92.7	2.00	0.794	
Toluene*	<0.050	0.050	02/21/2025	ND	2.10	105	2.00	7.79	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	10.1	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.98	116	6.00	10.9	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	02/21/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	02/20/2025	Sampling Date:	02/19/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 15 0-3' (H251017-14)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	1.85	92.7	2.00	0.794	
Toluene*	<0.050	0.050	02/21/2025	ND	2.10	105	2.00	7.79	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	10.1	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.98	116	6.00	10.9	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	02/21/2025	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager
Page 17 of 18

48-hour Kush



Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)

BILL TO

ANALYSIS REQUEST

Page 109 of 338

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Chad Hensley				P.O. #:							_	_
Address: 3101 Boyd Drive				Company: XTO Energy, Inc	Energy, Inc	1.						
City: Carlsbad State: NM	Zip: 88220			Attn: Colton Brown	nwo			(0)				_
Phone #: 575.725.5001	01 Fax#:			Address: 3104 E. Greene St	Greene S	+		MI				
Project #: 25E-00017	Project Owner: Colton Brown	Coltor		City: Carlsbad			-	0/				
Project Name: Brushy Draw 30-31 Federal Battery - South	ral Battery - South			State: NM 2	Zip: 8	88220	21)	DR	e		_	
Project Location:				Phone #: 575-988-2390	8-2390		(80	07	orid			
Sampler Name: L. Pullman				Fax #:			EX	GR	Chl			
FOR UNE CALL		-	MATRIX	PRESERV.	SAMPLING	NG	BTI	D((_	_
Lab I.D.		nP.					I	8015				
Sample I.D.								TPH:				
Hacinia		G)RAB O	GROUND VASTEW SOIL DIL SLUDGE	OTHER : ACID/BAS CE / COO OTHER :	DATE	TIME						
BS25-15 1.5'		C I	X		02.19.25	9:20	×	X	X			
Z BS25-16 3'		C 1	X		02.19.25	9:45	×	×	X			
5 BS25-17 3'		C 1	X		02.19.25	9:50	×	1	X			
4 BS25-18 1.5'		01	X		02.19.20	10:10	<	<	< >			
S BS25-19 1.5		01	X		02.19.20	10:10	<>	<	v A			
6 BS25-20 3'		0	X		02.19.20	00:01	2		• •			
7 WS25-08 0-1.5		C 1	X		02.19.25	9:15	×	-	×			
8 WS25-09 0-1.5		0	X		02.19.25	10:00	< >	~ >	~ >			
9 WS25-10 0-3'		0	X		02,19.20	9:30	1	-	~			
VS25-11 0-3"	Lasive nemedy for any claim arising whether based	C 1	d or fart, shall be limited to the amount p	ted to the amount paid by the client for the land	02.19.25	9:40	V V	V	acse whatsoever shall be	be dearned waived unless made in writing	g and received by Cardinal w	within 30 days after
completion of the applicable service. In no event shall calculate be also not incorreative or consequences and the services area of the performance of services hereander by Cardinal, regardless of whether such claim is based upon any of the above stated reasons of otherwise affiliates or successors areary out of or related to the performance of services hereander by Cardinal, regardless of whether such claim is based upon any of the above stated reasons of otherwise	able tor incodential or consequential denies y services hereunder by Cardinal, regards	the of which	ter such dam a based upon any of	the above stated reasons of	r ofherwise			1				
Actinguished B	Date: 1-10-15	Received By:	ed By:	h		Verbal Result: U Yes U No Please Email Results: Chad Hensley (CHensley@vertexresou Ludvik (ALudvik@vertexresource.com)	Results: (CHensley) /ik@vertexr	sley@ve texreso	vertexresource.co	Verbal Result: Verbal Result:	an@vertexresourc	ce.com), Andrew
Relinquished By:	Date: 1402	Received By:	ed By:		1	REMARKS: Direct Bill	irect Bi	II to XT	O Energy, Inc., C	to XTO Energy, Inc., Cost Center #: 2021091371, IIICINEIN #: IINF F 200000000	, IIICNJEHL #1, 1047 - 4	COUCEOTENE
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. *C 0.2. Corrected Temp. *C	5.6	Sample Condition Cool Intact Tree Pres	CHECKED BY: (Initials)		Turnaround Time: Standard	Standard Cool Intact Cool Intact	tha a	Descreed Temp. "C	ppe Condition	ted Temp. "C	
							R	0	alanta	No No Corrected Temp "C	Ted Temp. 'C	

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Saballan	Relinquished Rv: N						14 WS25-15 0-3"	13 WS25-14 0-1.5	12 WS25-13 1.5-3'	// WS25-12 1.5-3'	717	Lab I.D.	Sampler Name: L. Pullman	Project Location:	Project Name: Brushy Draw 30-31 Federal Battery - South	Project #: 25E-00017	Phone #: 575.7	City: Carlsbad State: NM	Bo	Project Manager: Chad Hensley	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	101 E (575	Laborator
Observed Temp. *C 0 Corrected Temp. *C	Date: 1402 Time:	Time Octo	mance of sensices hereunder by Cardinal, regardless	for incidental						Si	3'	3'	Sample I.D.				Federal Battery - South	Project Owner: Colton Brown	575.725.5001 Fax #:	Zip: 88220			e Services (Direct Bill to XT	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	oratories
- 07	Received By:		rdiess of wheth	9	+			+	C	C	-	С	(G)RAB OR (C)OMP.					ner: Col					0 Energ	88240	
	ved By	A	the such	in costhect or test, a including without	+	+		+	-	-	-	-	# CONTAINERS GROUNDWATER	Т				ton Br					gy, Inc		
Sample Condition Cool Intact Pres Pres No No No		N.	ar such claim is based upon any of the above	shall be limb limitation, b	+	Ħ		+				-	WASTEWATER SOIL	M				own					-		
e Condit			e undri per	business in	+			+	X	X	×	-	OIL	MATRIX											
) g		2	my of the a	mount paid by line Interruptions, loss	+	+		+		_	_	_	SLUDGE OTHER :		- 71	ס	S	0	Þ	Þ	0	T	-		
l	9	A	above start	y the clean									ACID/BASE:	PRES	Fax #:	hone	State:	City: Carlsbad	ddres	ttn: C	ompa	P.O. #:			
(Initials)	,	B	stated reasons	for the lan	+		\square	-		-	-	_	OTHER	PRESERV.		#: 575	MN	arlsba	s: 310	olton	ny: XT		BI		
3Y:	1	R	-	client for the analyses. All claims a of use, or loss of profils incurred b					02.19.25	02.19.25	02.19.25	02.19.25	DATE	SAMPLING		Phone #: 575-988-2390	NM Zip:	d	Address: 3104 E. Greene St	Attn: Colton Brown	Company: XTO Energy, Inc.		BILL TO		
Turnaround Time: Stand	REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2500254282	Verver research. Cres Cres Please Email Results: Please Email Results: Chad Hensley (Chensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Ludvik (ALudvik@vertexresource.com)		red by client, its subsidiaries					15:05	10:05	9:30	9:25	TIME	LING			88220		St		Inc.				
Stand Cool In D #113	Direct B	Results y (CHen y ik@ve		nes.	1	Ħ			X	×	×	×		вт	EX	(80	21)				_	-			
dard Db	to XT	nsley@v ertexresc		d any other		Π			x	×	×	×	TPH:8015	5D(0	GRO	<u>о</u> л	OR	0/1	MR	0)	-				
Bacter Served Tem	O Energ	vertexres		cause what	1	Ħ		1	X	×	×	×		(hlo	ride		_		-	_				
Bacteria (only) Sample of Temp. "C	yy, Inc.,	ource.		SORVER STA	+	Ħ				1			1	-	-		-	-	-	-	-		AN		
ample Con	Cost C	iom), L		De desm	+	+	+	+	\square	+	+	+				-	-			_		-	ANALYSIS		
Condition	enter #	n), Lakin Pullm	2	paver p	+	$^{+}$	+	+		+	+	+		_		-	-	-	_	_	-	-			
n di la cial di la ciad di la cia	20276	ilman (uniess mái	+	+	-	+	-	+	-	+			_	_					_	_	REQUEST		
	91371,	Lpullm		te in writing	+	+	-	-		+	-	+									_		ST		
	Incider	an@ve		and receiv	+	+	-	-		-	-	-					_								
	nt#: nA	rtexresu		ved by Can																					
	PP250	ource.c		dinal within																					
	125428	om), A		30 days e																					
		ndrew		1							1	1		-	-	-	-	-	-	-	_	\neg			

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

48-hour Rush

Released to Imaging: 4/25/2025 7:46:45 AM



March 12, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/10/25 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA Received: 03/10/2025 Sampling Date: 03/07/2025 Reported: 03/12/2025 Sampling Type: Soil Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 25E-00017 - SOUTH Sample Received By: Tamara Oldaker Project Location: XTO

Sample ID: BS 25 - 21 3' (H251380-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	256	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	131 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	135 %	6 40.6-15	•						

Cardinal Laboratories

*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 22 1' (H251380-02)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	126	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	125	40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received: Reported: Project Name: Project Number: Project Location:	03/10/2025 03/12/2025 BRUSHY DRAW 30-31 FEDERAL BATTER` 25E-00017 - SOUTH XTO	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	03/07/2025 Soil Cool & Intact Tamara Oldaker

Sample ID: BS 25 - 23 1' (H251380-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	130	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	130	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 24 1' (H251380-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	127	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 25 2' (H251380-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	117 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	129	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 26 1' (H251380-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	122	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	122	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 27 2' (H251380-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	134	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	142	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 28 3' (H251380-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	127	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 29 3' (H251380-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	131	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	132	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 30 2' (H251380-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	131	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	137	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received: Reported: Project Name: Project Number:	03/10/2025 03/12/2025 BRUSHY DRAW 30-31 FEDERAL BATTER` 25E-00017 - SOUTH	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	03/07/2025 Soil Cool & Intact Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 31 2' (H251380-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	128	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127	% 40.6-15	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 32 1.5' (H251380-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	133	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	135	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 33 1.5' (H251380-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	134 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	134 9	40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 34 1.5' (H251380-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	1.98	99.0	2.00	1.71	
Toluene*	<0.050	0.050	03/10/2025	ND	2.05	102	2.00	1.93	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.06	103	2.00	2.09	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	6.27	105	6.00	1.22	
Total BTEX	<0.300	0.300	03/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	139	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	139	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 35 1.5' (H251380-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.94	97.0	2.00	6.90	
Toluene*	<0.050	0.050	03/11/2025	ND	2.17	109	2.00	0.304	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.52	126	2.00	3.97	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.83	131	6.00	3.54	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	136	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	137	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 36 1.5' (H251380-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.94	97.0	2.00	6.90	
Toluene*	<0.050	0.050	03/11/2025	ND	2.17	109	2.00	0.304	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.52	126	2.00	3.97	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.83	131	6.00	3.54	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	137	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	137	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 37 1.5' (H251380-17)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.94	97.0	2.00	6.90	
Toluene*	<0.050	0.050	03/11/2025	ND	2.17	109	2.00	0.304	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.52	126	2.00	3.97	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.83	131	6.00	3.54	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	141 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	135 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	137 9	40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 38 1.5' (H251380-18)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.94	97.0	2.00	6.90	
Toluene*	<0.050	0.050	03/11/2025	ND	2.17	109	2.00	0.304	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.52	126	2.00	3.97	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.83	131	6.00	3.54	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	134 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	139 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	141 9	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 - SOUTH	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: BS 25 - 39 1.5' (H251380-19)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59	
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	201	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	195	97.4	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					
Surrogate: 1-Chlorooctane	128 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	131 9	40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	(MII)	Relinquished By:	83	0	9	8	7	6	5		U		1	Lab I.D. H251380	FOR LAB USE ONLY	er Name: A.	Project Location:	Project Name: Bru	Project #	Phone #:	City: Carlsbad	Address: 3101 Boyd Drive	Project Manager: Chad Hensley	Company Name: V Company)			
	One) - Other:	,	(man)	Od F	fice. In no event shall Cardinal be liable for all of or related to the performance of service	BS25-3() 2" lages Cardina's liability and client's exclu-	BS25-29 3'	BS25-28 3'	BS25-27 2'	BS25-26 1'	BS25-25 2'	BS25-24 1'	BS25-23 1'	BS25-22 1'	BS25-21 3'	Sample I.D.		Ludvik		Project Name: Brushy Draw 30-31 Federal Battery - South	Project #: 25E-00017	575.725.5001	State: NM	/d Drive	Chad Hensley	ertex Resource Servi	101 East Mi (575) 393	Laborat	ARDIN
	Observed Temp. °C	Date: 1245	ICD.	Date: 3-10-35	ble for incidental or consequental dam. services hereunder by Cardinal, regar	sive remedy for any claim arising vehicher										.D				ral Battery - South	Project Owner: Colton Brown	01 Fax #:	Zip: 88220			Company Name: Vertex Resource Services (Direct Bill to ExxonMobil Upstream Company)	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	ories	NAL
-	96	Rece	0	Rece	diess.	C	0	C	C	С	C	С	С	С	C	(G)RAB OR (C)OMP.					ier: Co					xonMo	88240		
-		Received By:	5	Received By:	of whether such clair	1 ontract or	-	1	-	1	1	1	1	1	1	# CONTAINERS	_				olton					bil U			
	Coo	By:	à	By:	hout limit such claim	tor: shall				_						GROUNDWATER					Brow					pstre			
No I	Sample Condition Cool Intact				t imitation, business interruptions, loss claim is based upon any of the above	In Indee	×	X	X	x	X	x	X	X	X	WASTEWATER SOIL	MA				3					am			
No	act		0	2	d upon any	in the set				_						OIL	MATRIX												
	ion		2	5	ny of the	bed here	-		_	_		_		_	_	SLUDGE OTHER :		-77	70	6	0	Þ	Þ	0.0	7	-			
()		2	-		by the ci	t									ACID/BASE:	PR	Fax #:	hone	State:	ity: 0	ddre	ttn:	omp	P.O. #:				
4	(I		2	9	of use, or loss of pr stated reasons or o	and for the				_				_		ICE / COOL	PRESERV.		# 5	MN	City: Carlsbad	SS: 3	Colto	any:	G	m			2
.6	(Initials)	1	S	11	loss of profits inc. sons or otherwise	analyses. Al claims	03.07.25	03.07.25	03.07.25	03.07.25	03.07.25	03.07.	03.07.25	03.07.25	03.07.25	DATE			Phone #: 575-988-2390	M Zip:	bad	Address: 3104 E. Greene St	Attn: Colton Brown	Company: ExxonMobil Upstream Company		BILL TO			HAIN-C
8 7 1	L . Te	2.20	50	2	uned by d	25 ams inclu	25	25	25	.25	.25	.25	25	.25	.25	m	SAMPLING		õ	~		ene S		oil Ups		0			DF-C
	Turnaround Time:	nAPP2500254282	Chad Hensiey (Chensiey@vertexresource.com), Laxin Puliman (Lpuliman@vertexresource.com), Anure Ludvik (ALudvik@vertexresource.com)	Verbal Result: 7 Please Email Results:	ed by client, its subsidiarie	9:50 ding those for megi	9:45	9:40	9:35	9:30	9:25	9:20	9:15	9:10	9:05	TIME	NG			88220		đ		stream					CHAIN-OF-CUSTODY
DX.	Standard Cool Intact	182	ik@ven	lesults:		A number of the second	×	X	X	X	X	X	X	X	X		BI	EX	(80)21)	_							
994	rd Obse	I to Exxo	texresou	Yes 🗆		X any other ca	X	X	X	х	X	X	X	X	X	TPH:8015	5D(GR	0/	DR	0/	MI	RO)						ND /
280	Bacteria rved Temp	onMobil	rce.com	No		X whatsoe	X	X	X	X	X	X	X	X	X			Chl	orid	le									ANAL
25	(only) Sample "C	Upstream)			ver shall be d						_					_	_	_				_	_		ANALYSIS	-	-	AND ANALYSIS REQUEST
пп	e Condition	n Comp), Lakin	Add'I Phone #:		eemed way																	_			1			RE
Ves Ves		any, C	Pulin	Dulla		ved unless																				REQUEST			QUE
		ost Ce	an(Lp			s made in																				JEST			ST
Corrected		enter #	uima			writing a	+	+	\vdash			-			F		-								-	1			1.
rected Temp. "C		: 2027	(U) (U) VIII			nd receive	+	-	-	-	\vdash	-	-	-	-		-					_			-				
0		69137	salyar			ed by Can													_	_	_		_						
		1, Incid	ource.			dinal with																							
		ient #:	com), A			130 days a																							
			Indian			8	t	-							-		-	_					-		-				

Page 22 of 23

ï

Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and completion of the applicable affiliates or successors ansi-		10	11	14	4	14	CI I	12		Ha51380	Lab I.D.	Sampler Name: A. Ludvik	Project Location:	Project Name: E	Projec	Phone #:	City: Carlsbad	Address: 3101 Boyd Drive	Project Manager: Chad Hensley	Company Name Company)	
	Charles -	111	PLEASE NOTE: Lubulity and Damagins. Cardina's lability and cleart's exclusion minist completion of the applicable service: In nic event shall Cardina' be lable for inci- affiliates or successors arising out of or related to the performance of services i			BS25-37 1.5	BS25-36		BS25-34 1.5'	BS25-33 1.5'	BS25-32 1.5'	BS25-31 2'	Sample I.D.		A. Ludvik	n	Project Name: Brushy Draw 30-31 Federal Battery - South	Project #: 25E-00017	575,725,5001	State: NM	Boyd Drive	r: Chad Hensley	Company Name: Vertex Resource Services (Direct Bill to ExxonMobil Upstream Company)	aborato(101 East Mariand (575) 393-2326
Observed Temp. *C 3.6 Corrected Temp. *C 3.9	Time:	Date:210-02	y for any claim arising whether dental or consequental darr rereunder by Cardinal, rega										.D.				al Battery - South	Project Owner: Colton Brown	01 Fax #:	Zip: 88220			ces (Direct Bill to Exxc	0 ratories 101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
20	Received By:	Received By:	ased in contract gers, including Sess of whethe	\vdash	+	00	+	C	С	С	С	C	(G)RAB OR (C)OMP. # CONTAINERS					r: Colt					onMobi	8240 2476
	ved B	ved By	ng without they such				-	-	-	-	1	-	GROUNDWATER	Т				ton Br					il Upst	
Cool Intact		1.2	shall be limited limitation, bus claim is based	H									WASTEWATER SOIL					own					tream	
Sample Condition Cool Intact Pres Pres			business business	ŀ	< ;		×	X	X	X	X	X	OIL	MATRIX										
tion	1		anterruption any of the		_								SLUDGE		- 70	77	(0)	0		-	0.0		_	
0	A		t by the clie ms, loss of above st	H	+		t	t					OTHER : ACID/BASE:	PRE	Fax #:	hone	State:	City: Carlsbad	Addres	Attn: O	ompa	P.O. #:		
(In CHEC		2	use, or lo use, or lo	H	+	-	F	-		-	-	F	ICE / COOL	PRESERV.		#: 575	NM	arlsba	SS: 31	olton	any: E		8	
(Initials)	A	1	based in contract or fort, shall be limited to the encourt paid by the client for the analyses. All clients appex, including without limitation, business interruptions, loss of uses of profits incurred indexs of whether such client is based upon any of the above stated reasons or otherwise.		02 07 75	03.07.25	03.07.25	03.07.25	03.07.25	03.07.25	03.07.25	03.07.25	DATE	SAMP		Phone #: 575-988-2390	Zip:	bt	Address: 3104 E. Greene	Attn: Colton Brown	Company: ExxonMobil Upstream Company		BILL TO	
Turnaround Time Highr X c Thermometer ID Correction Factor	Please Email Results: Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Ludvik (ALudvik@vertexresource.com) REMARKS: Direct Bill to ExxonMobil Upstream Company, Cost Center #: 2027691371, Incident #: nAPP2500254282	Verbal Result: V	ythe client for the analyties. At cliams including those for neplig loss of use, or loss of profits incurred by client, its subsidiaries hove stated reasons or otherwise		1	10:25	+		10:10	10:05	10:00	9:55	TIME	SAMPLING			88220		e St		Jpstream			
Star Star	r Result y (CHei dvik@ve Direct E 4282		les soudeder		~	~ ~	1	×	×	x	X	X		вт	EX	(8	021)			-	-		
hard of the total	s: nsley@v artexres 3ill to Ex	es	to any other			~ ~		×	×	×	x	×	TPH:80	15D	GR	0/	DR	0	M	RO)				
Bacteria biserved Temp 3/10	ource.cor cxonMobi	I No	cause whatso		~	××	• >	×	X	x	X	X		. 1	Chl	oria	le	_	_					2
a (only) Samp	n) Upstrea		sever shall be																				ANALYSIS	
ste Conditio	n), Lakir m Com	Add'l Phone #:	Deamed wa																				1	N
U Ves	n Pullm pany, C	hone #	aved miss																				REQUEST	~
Yes O	an (Lp		e mane		1	T	t	T		T		T											JEST	
orrected Te	uliman(nter 井		Are During		1		T	T	T	T		T												
Temp. "C	202769		Concertain D		1	1	T	T	T	T	T	T					-						1	
	1371, In		A manual	H	+	+	+	+	+	-	\vdash	+	-					_				-		
	ce.com Icident		DC LINES		+	+	+	+	-	+	\vdash	+			_	_	-	_						
), An		and the																					

Page 23 of 23



March 12, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/10/25 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA Received: 03/10/2025 Sampling Date: 03/07/2025 Reported: 03/12/2025 Sampling Type: Soil Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 25E-00017 (SOUTH) Sample Received By: Tamara Oldaker Project Location: XTO

Sample ID: WS 25 - 16 0-3' (H251381-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59	
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	208	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	127 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	129 %	6 40.6-15	2						

Cardinal Laboratories

*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 17 0-1' (H251381-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	116 9	40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 18 0-1' (H251381-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	117 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	117 9	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 19 0-2' (H251381-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	125 9	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127 9	6 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 20 0-3' (H251381-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	115 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	122 9	6 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 21 0-2' (H251381-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	124	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 22 0-1.5' (H251381-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	125	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	127	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017 (SOUTH)	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 23 0-1.5' (H251381-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.8	2.00	2.42	
Toluene*	<0.050	0.050	03/11/2025	ND	2.10	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.06	103	2.00	0.165	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	0.0761	
Total BTEX	<0.300	0.300	03/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/11/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	195	97.6	200	1.83	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	190	95.1	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					
Surrogate: 1-Chlorooctane	123	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	126	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By	and and	Relinquished By:	pompleton of the applicab affiliates or successors an				~	6	S	4	Cul	2.	100000	182128H		FOR LAB USE ONLY	Sampler Name: A.	Project Location:	Project Name: B	Projec	Phone #:	City: Carlsbad	Address: 3101 Boyd Drive	Project Manager: Chad Hensley	Company Name:	
ircle One) Bus - Other:	sy:	(BAPPE)	CU 1/38	ansing out of or related to the performance of se	d Damages Cardina's lability and olient's exclusion on avent shall Cardinal be lab		8 WS25-23 0-1.5'	WS25-22	WS25-21 0-2'	WS25-20 0-3'	WS25-19 0-2"	3 WS25-18 0-1'	2 WS25-17 0-1'	WS25-16 0-3'		Sample I.D.		A. Ludvik	10	Project Name: Brushy Draw 30-31 Federal Battery - South	Project #: 25E-00017	575.725.5001	State: NM	loyd Drive	: Chad Hensley	(5/3) 353-2329 FAA (3/3) 353-2329 FAA (3/3) 353-2329 FAA (3/3) 353-2329 FAA (3/3) 353-2470 FAA (3/3) 570-2470 FAA (3/3) 570-24700 FAA (3/3	aboratories
Observed Temp. °C	Time:	Time:	Date: 3-10-26	nvices hereur	is remedy for any claim spaing watther based in contract or tint, and be limited to the anouner paid by the claim for the imaginess. All claims including throats into the spain and the claims including throat for reason is the index of the claim of the															Battery - South	Project Owner: Colton Brown	Fax #:	Zip: 88220			Urce Services (Direct Bill to ExxonMo	Dratories 101 East Marland, Hobbs, NM 88240
200	Never	Baceived By	Received By	liess of wheth	ased in contral ges, including	+	1	+	01	C 1	C 1	C 1	C 1	C 1		ONTAINERS	Ρ.				Colton					Mobil U	40
	cu oj.	and By:	ed By:	ter such clair	d or tort, shall without, limit	1	+	t	F	F	F					ROUNDWATER	_				Brown					pstream	
No Di Inta				n is based up	ation, busine	1	>	< >	2	×	×	×	×	X	SC	DIL	MATRIA									,	
act Tes No		103		ion any of the	te amount pak ss interruptio	1	1	t	t	t	t	t	F		SL	LUDGE				2 5	2 5	A	At	0.0	9.0	-	
0			2	e above state	d by the client ms, loss of u		1	1	t	t	t	1	t	T	A(CID/BASE:	FRESE	DDESEDV	NOILE #.	State:	0	idress:	tn: Colt	ompany	P.O. #:		
(Initials)			1	d reasons o	torthe smally									0	0	THER :		PV I	Filolie #. or or over a core	NM LIP.	SDau	3104 E.	on Brov	Company	Exxon	BILL	
D BY:		K	1	dgwuwgo	ses. Al claim profits incurre		10101	03 07 25	02.07.75	02.10.00	03.07.23	05.07.20	03.07.23	03.07.25		DATE		SAMPLING		p.		Address: 3104 E. Greene	n		Mobil U	TO	
Tumaround Time Hong C Thermometer ID & Correction Factor	nAPP2500254282	Chad Hensley (Chensley@vertexresource.com) Ludvik (ALudvik@vertexresource.com) REMARKS: Direct Bill to ExxonMobil Upstream Company, Cost Center #: 2027691371, Incident #:	Verbal Result: Ures Urv Please Email Results: Andrew Andrew Andrew Andrew Please Email Results:		s including those for ne tid by client, its subsidia		-	+	Т	11.20	T	+	T	+	t	TIME		PLING		88220	20000	1C 0	2		P.O. #: Company: ExxonMobil Upstream		
5 3 8 9		dvik@ve Direct E	Results		nies.			×	~ ;	~		~ >	< >	~ >	<		E	BTE	X	(802	1)				_		
andard Deve strate obse		rtexreso fill to Exp	ults:		a multi series se	-		x	~	-		~		~ ~	×	TPH:	8015	D((GRO) / D	R)/N	IRC))			
served Temp		urce.com konMobi	L NO	N	-	and whister		X	×	×	~	~ ;	~ ;	~ ~	~			C	hlo	ride				_		-	
p. °C		n) I Upstrea	NITCE.CO			ever shall be												_					_	_		ANALYSIS	
		am Com	m). Lakir	Add'I Phone #:		deemed wa				_	-	-	-	-	_		_	_			_	_	_	_		_	
D Yes Ves		pany, Co	Pullmar	hone #:		ved unless a							-	-	_								_		_	REQUEST	
les Nei Corre		st Center) (Lpulim			ade in writing	-		_	_	_	_	-	+				_		_	-	_	-			- 7	
stad Temp, "C		#: 20276	an@vert			and received	+	-	-		-	_	-	-				-	-			-	-				
		691371, 1	exresour			d by Cardinal	+	+		-	-	-	-	_	-			-	-	-	-			_		-	
		ncident #	rce.com)			within 30 day	+	+	+		-				-		_	-					_				
		14	Andrey			safter	+	+	-	-	-	-	-		-		_	_					_				

Page 11 of 11


March 27, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/21/2025	Sampling Date:	03/20/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 02 @ 0-1.5' (H251678-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/24/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.7	% 40.6-15	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	CHAD	ex resource Hensley Boyd Drive		
	CARLS	5BAD NM, 88220		
	Fax To	o: NA		
- · · ·			.	
Received:	03/21/2025		Sampling Date:	03/20/2025
Reported:	03/27/2025		Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDE	RAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017		Sample Received By:	Tamara Oldaker
Project Location:	XTO			

Sample ID: WS 25 - 11 @ 0-3' (H251678-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/24/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.9	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/21/2025	Sampling Date:	03/20/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 14 @ 0-1.5' (H251678-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.7	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/21/2025	Sampling Date:	03/20/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 15 @ 0-3' (H251678-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.73	86.5	2.00	10.7	
Toluene*	<0.050	0.050	03/25/2025	ND	1.89	94.5	2.00	5.90	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.94	97.1	2.00	3.24	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.06	101	6.00	2.28	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/24/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.8	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/21/2025	Sampling Date:	03/20/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER	Sampling Condition:	Cool & Intact
Project Number:	25E-00017	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 24 @ 0-1' (H251678-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.73	86.5	2.00	10.7	
Toluene*	<0.050	0.050	03/25/2025	ND	1.89	94.5	2.00	5.90	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.94	97.1	2.00	3.24	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.06	101	6.00	2.28	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/24/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					
Surrogate: 1-Chlorooctane	77.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.5	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA		
Received:	03/21/2025	Sampling Date:	03/20/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	BRUSHY DRAW 30-31 FEDERAL BATTER'	Sampling Condition:	Cool & Intact
Project Number:	25E-00017	Sample Received By:	Tamara Oldaker
Project Location:	ХТО		

Sample ID: WS 25 - 25 @ 0-1' (H251678-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.73	86.5	2.00	10.7	
Toluene*	<0.050	0.050	03/25/2025	ND	1.89	94.5	2.00	5.90	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.94	97.1	2.00	3.24	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.06	101	6.00	2.28	
Total BTEX	<0.300 0.300		03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2025	ND	448	112	400	3.64	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.3	% 40.6-15	3						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Name: Blushy Dlaw 30-31 Federal Battery Spillate NM Zip: 98220 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Kiley Amold Sample I.D. Hensley Tesources 30 othei Fax #: 0. Project Owner: State: N/M Zip: 88220 Unite: Time: Serle 310 (G)RAB OR (C)OMP withou Received B **Received By** # CONTAINERS waived i GROUNDWATER WASTEWATER MATRIX made in writing and received by Cardinal × SOIL OIL SLUDGE P.O. #: Fax #: Address: 310HEGreen St Attn: Lolton Brown Company: Exxon Mobi Phone #: 575-988-590 city: Las (Shad loss OTHER ACID/BASE PRESERV. ICE / COOL or loss of profits BILL TO OTHER within 30 days after 3.202512:30 DATE SAMPLING ed by client, its subsidiaries 1:07 12:45 1:50 1:22 2:16 All Results are emailed. Please provide Email address completion of the applicable by the client for the Verbal Result: REMARKS: TIME anold Duestex lesource. com Chensley Duester lie BTEX (8021) X TPH; 8015D (GRO, DRO, MRO) D Yes × × Chloride I No ANALYSIS Add'l Phone #: REQUEST 200 Page 9 of 9 Released to Imaging: 4/2 /2025 7:46:45 AM

Received by OCD: 4/7/2025 2:09:53 PM

Relinquished By:

ģ

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C Observed Temp. °C

Cool Intact

44

Sample Condition

CHECKED BY:

Turnaround Time:

Rush Standard

Bacteria (only) Sample Condition Cool Intact Observed Temp.

°°C

Yes Yes

Corrected Temp. °C

Correction Factor 36°C +0,3c

(Initials)

+

Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinaliabenm.com

Time: Date: Relinguis

jed By

service. In no event shall Cardinal

Be ğ

and any

LEASE NOTE: Lis

≧

ARDIN

oratories

Page 153 of 338

Project Manager: Chack Company Name: Verley

Project #: 256-00017 Phone #: 575-200-6167

Sampler Name: Project Location:

FOR LAB USE ONLY

Lab I.D

W 2

W525

w525 W522

C

w525

-15 - 14

W525-24

w525-

city: Callsbad

Address:

3101

boyd



February 26, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



VERTEX RESOURCE CHAD HENSLEY 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA Received: 02/24/2025 Sampling Date: 02/21/2025 Reported: 02/26/2025 Sampling Type: Soil Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 24E-04918, 25E-00017 Sample Received By: Shalyn Rodriguez Project Location: XTO

Sample ID: BACKFILL (H251073-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/25/2025	ND	2.02	101	2.00	0.0537	
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	5.63	
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.10	105	2.00	9.82	
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.22	104	6.00	10.9	
Total BTEX	<0.300	0.300	02/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	240	16.0	02/25/2025	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					
Surrogate: 1-Chlorooctane	60.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	59.4	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Relinquished By:	Relinquisheraby:	PLEASE NOTE: Luikiny of Campas Cathor's laiking or dens excession or completion of the applicable earlier. In no event shall Cathoria be lable for affiliates or successions while of or related to the performance of serve				BackFill	D IT'II	Lab I.D. Sample I.D.	FOR LAR USE ONLY	Sampler Name: L. Pullman		Project Name: Brushy Draw 30-31 Federal Battery	Project #: 24E-04918, 25E-00017	Phone #: 575.725.5001	City: Carlsbad State: NM	Bo	Project Manager: Chad Hensley	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	101 East Ma (575) 393-1	Laboratories	
Data: 34,35 Rece Time 30	Time: VYYN	In moly for any coins arising whether based is contract or test. for incidental or consequential damages, including without vices hereunder by Cardinal, reparderss of whether such						,D				al Battery	Project Owner: Colton Brown	1 Fax #:	Zip: 88220			es (Direct Bill to XT	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	oratories	
Received By	Received By:	based in contrac ages, including rdiess of wheth				C 1	+	(G)RAB OR (C)OMP. # CONTAINERS	-				her: Colto					O Energy	88240 3-2476		
ad By:	ed By:	untraci or ten, shall be limited to the Juding without limitation, business whether such claim is based upon					L	GROUNDWATER	Г				on Brov					y, Inc.)			
Sample Condition		shall be limited to limitation, busin claim is based u				×		VASTEWATER SOIL	MATRIX				n								
ndition							+-	DIL GLUDGE	RIX												
3		mount paid by the client for the	-	-		+		OTHER : ACID/BASE:	PR	Fax #:	Phon	State:	City:	Addr	Attn:	Com	P.O. #:				
	_	Sent for the la of use, or los stated reason		-	++	+	-	CE / COOL	PRESERV.		e #: 57		City: Carlsbad	ess: 31	Colton	pany: X	. 1	8		위	
(Initials)		the analyses Al claim to be as of profits incurre reasons or otherwise				02.21.25		2	-		Phone #: 575-988-2390	NM Zip:	ad	Address: 3104 E. Greene St	Attn: Colton Brown	Company: XTO Energy, Inc.		BILL TO		IAIN-0	
REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2431846528, pAPP2509264222 Turnaround Time Standard Bacteria (only) Sample Condition	Verbal Result: □ Yes □ Add'I Phone #: Please Email Results: Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Andrew Ludvik (AL udvik@vertexresource.com)	is including those for negli ed by client, its subsidiarie				25 13:30	t	TIME	SAMPLING			88220		ene St		y, Inc.				CHAIN-OF-CUSTODY	
Standard	CHens	gence and				X		В	TI	EX	(80	21)				_					
ill to XTO	Yes s: sley@ve	any other o				×		TPH:80151)((GRO	0/1	DRO	0/1	MR	0)					AND	
Energy Bacteria Bacteria	I No vertexreso	luse whatso				X	Ī		C	hlo	ride									ANA	
Energy, Inc., C Bacteria (only) Sam Bacteria (only) Sam	urce.co	ever shall b																ANA		LYS	
ost Cen pie Conditio	Add'l F	deemed w					T			_						_		ANALYSIS		IS R	
ter #: 20	Add'l Phone #: n), Lakin Pullma	aived unles																		EQU	
276913	an (Lpul	made in w													-			REQUEST		AND ANALYSIS REQUEST	
71, Incid	lman@v	rting and rec																		1	
ent#: n.	ertexres	ceived by Ca																			
APP243	ource.c	Irdinal within																			
846528,	om), And	30 days ufte																			
	rew																				

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

48 hour Rush



Client	XTO Energy Inc. (US)	Inspection Date	1/23/2025					
Site Location Name	Brushy Draw 30-31 Fed Battery	API #						
Client Contact Name		Project Owner						
Client Contact Phone #		Project Manager						
Project Reference #								
Unique Project ID								
	Sum	mary of Times						
Arrived at Site	1/23/2025 8:20 AM							
Departed Site	1/23/2025 3:30 PM							
Field Notes								
14:14 Continue hydro	14:14 Continue hydro vac lines							
14:15 Have hand digging crews dig down areas in between separator								

Next Steps & Recommendations

1 Continue hand digging and hydro vac lines

.



Site Photos Viewing Direction: East Viewing Direction: North seperators at 2, Area in front of both seperators at 2' Area in between separators on south end Viewing Direction: East Viewing Direction: West 1616 Hydro vac area in front of separators Hydro vac area in front of separator



Viewing Direction: West	Viewing Direction: East
Presentations Provide a Presentations Presentation Provide a Presentation Presentations Presentation Provide a Presentation Presentation Presentations Presentation Provide a Presentation Present	Descriptions Photos Maning Alexandraria State Maning Alexandraria Stat
Hydro vac area in front of separators	Hydro vac area with 6" line and electrical lines
Viewing Direction: West	Viewing Direction: West
Description of the provide a first of the provide a state of the pro	Promotified as Proceeding of the second and the second as a second
Hydro vac area in front of separator	Hydro vac area by separators







Daily Site Visit Signature

Inspector: Riley Plogger Signature:

Run on 2/16/2025 2:19 AM UTC



Client	XTO Energy Inc. (US)	Inspection Date	1/28/2025					
Site Location Name	Brushy Draw 30-31 Fed Battery	API #						
Client Contact Name		Project Owner						
Client Contact Phone #		Project Manager						
Project Reference #								
Unique Project ID								
	Summa	ry of Times						
Arrived at Site	1/28/2025 8:30 AM							
Departed Site	1/28/2025 3:15 PM							
Field Notes								
14:26 Have hydro vac	14:26 Have hydro vac operators continue spotting lines							
14:27 Hang digging crews digging in between separators								

Next Steps & Recommendations

1 Continue spotting lines with hydro vac

2 Continue digging out areas in between separators



	Site Photos
Viewing Direction: West	Viewing Direction: West
Descriters en encoded a la constance descriters encoded a la constance descriter encoded a la constance descriters encoded a la constance descriter encoded a la constance descriters encoded a la constance descriters encoded a la constance descriter encoded a la constance descriters encoded a la constance descriters encoded a la constance descriter encoded a la constance descriter encoded a la constance descriters encoded a la constance descriter encoded a la constance descriter encoded a la constance descriters encoded a la constanc	Devertence DROM Devertence DROM DEVERT
Lines hydro vac going to separators	Lines hydro vac going to separators
Viewing Direction: West	Viewing Direction: West
Oreschieffinis Chief and Weisering Tricket for West Deers Chief Sylfox Vest Deers Chief Sylfox Vest De	Designed for the Photo of A Hermitian Conception of the Conceptio
Lines hydro vac going to separators	Lines hydro vac going to separators



Viewing Direction: South	Viewing Direction: West
Descriptive Proto - Forth Meeting 20 Proto - F	Descriptive Photo - 6 Viewing: Direction: West Brack: Living Honora Mice coling to assessmenter Disktight Province Mice coling to assessmenter
4 Gas lines going west of location	Lines hydro vac going to separators
Viewing Direction: South	Viewing Direction: South
Area hand dug in between separators at 1'	Area hand dug in between separators at 1'



Viewing Direction: East	Viewing Direction: North
Desiring the state of the sequence of 1, A contract of the second s	Transfer in the Protoce - 10 Transfer in the Protoce - 10 Transf
Area hand dug behind separators at 1'	Area hand dug in between separators at 1'



Daily Site Visit Signature

Inspector: Riley Plogger

Signature:



Client	XTO Energy Inc. (US)	Inspection Date	1/29/2025					
Site Location Name	Brushy Draw 30-31 Fed Battery	API #						
Client Contact Name		Project Owner						
Client Contact Phone #	<u>2 17 18.1 17 1</u>	Project Manager						
Project Reference #								
Unique Project ID								
	Sui	nmary of Times						
Arrived at Site	1/29/2025 8:29 AM							
Departed Site	1/29/2025 2:30 PM							
		Cield Natas						
Field Notes								
12:13 Finish lines to hydro vac								
12:13 Continue hand digging in between separators								
12:13 Begin 6' excavation								

Next Steps & Recommendations

1 Continue excavation around area of concern

.



Site Photos Viewing Direction: South Viewing Direction: South AN Have digging area down to 1' Have digging area down to 1' Viewing Direction: West Viewing Direction: South Excavation area at 3' Hydro vac area



Viewing Direction: West	Viewing Direction: West	
Descentement Photo - 5 benere 2 in colon - West benere 2 in colon - West	Constanting Participants + 6 Constanting Part	
Hydro vac area	Hydro vac area	



Daily Site Visit Signature

Inspector: Riley Plogger Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	2/4/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/5/2025 12:01 AM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/4/2025 10:03 AM			
Departed Site	2/4/2025 3:33 PM			

Field Notes

- **15:14** I met with my PM on site and completed a walkthrough of the the current and proposed excavation. We discussed the scope of work in regards to the two separate spills on site.
- **12:19** After inspecting the work area, I completed the JSA and reviewed safety. Work to continue with Halo excavating the initial proposed excavation.
- **15:15** I began collecting base samples from project # 25E-00017 (nAPP2500254282). I collected BS25-01 to -05 at ~1 ft bgs from the area hand dug between the two northern separators.
- 14:24 All collected samples tested for chloride using titration. All samples exceeded strictest criteria.
- **15:15** The hand dug area between the north separators will need to be hand dug down to ~2 ft bgs.

Next Steps & Recommendations

1





Run on 2/5/2025 12:01 AM UTC









Removed mater placed on liner

Run on 2/5/2025 12:01 AM UTC



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/5/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/6/2025 12:35 AM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/5/2025 8:06 AM			
Departed Site	2/5/2025 3:33 PM			

Field Notes

- **8:12** On site at approximately 8:05 am. Driving delayed due to dense fog driving conditions. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.
- 8:15 I assessed site, completed JSA and reviewed safety for today's activities. Focused on excavation, line strikes, line of fire, mobile equipment, and ignition sources. Work to continue on excavating the initial proposed excavation.
- **17:05** 25E-00017, nAPP2500254282: I walked the site and marked out the remaining proposed excavation areas using white paint and flagging.

I also hand the Halo hand crew dig a couple test areas down to 1.5 and 2 ft and tested samples here. This determined theses areas would need to be dug down to 1.5' bgs.

- **17:02** 24E-04918, nAPP2431846528: The eastern half of the 6 ft excavation needed to be extended out to meet the initial proposed excavation dimensions. I worked with Halo in dividing a plan of action to extend this area safety. The immediate excavation to the right and southeast of this area needed to be advanced down to 4' bgs as well.
- 17:01 I remarked proposed excavation perimeter on the north half of the excavation (24E-04918, nAPP2431846528).

17:01 I collected BS24-01 and -02 (24E-04918, nAPP2431846528) at 4' bgs.

Both samples field screened for chlorides and TPH. Both samples passed criteria.

Next Steps & Recommendations

1

Released to Imaging: 4/25/2025 7:46:45 AM

Run on 2/6/2025 12:35 AM UTC















Northern excavation progress. Area being dug down to 4' bgs.



Northern excavation progress.

Run on 2/6/2025 12:35 AM UTC




Had hand dig crew dig down to 1.5 and 2 feet in an area between the two north large separators to gauge how deep they need to advance the area down.



Test area at 1' and 1.5' bgs southwest corner of western large separator.



Area where BS25-01 and -02 were collected at 4' bgs.



Area being dug down to 4' bgs. Western half will need to be dug down to 6' bgs.





Run on 2/6/2025 12:35 AM UTC

separator.



Daily Site Visit Signature

Inspector: Andrew Ludvik



.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/6/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/7/2025 12:18 AM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/6/2025 8:01 AM			
Departed Site	2/6/2025 3:20 PM			

Field Notes

- **12:55** On site at approximately 8:00 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.
- **12:57** I assessed site, completed JSA and reviewed safety for today's activities. Focused on excavation, line strikes, line of fire, mobile equipment, and ignition sources. Work to continue on excavating the initial proposed excavation.
- **16:56** 25E-00017, nAPP2500254282: I collected BS25-06 and -07 at 1' bgs in the area between the two northern large separators.

Both samples field screened for chlorides. -06 exceeded criteria but -07 passed field screening criteria.

-07 was field screened for TPH and passed field screening criteria.

- **16:52** I also had the Halo hand crew dig a couple test areas down to 1.5 and 2 ft and tested sample near the eastern north large separator and near BH25-12. This determined theses areas would need to be dug down to 1.5-2' bgs.
- **16:54** 24E-04918, nAPP2431846528: I collected BS24-03 to -06 at 4' bgs and BS25-16 at 3' bgs.

All samples field screened for chlorides and TPH. All samples passed criteria.

16:53 Using GPS, I marked out the northwest perimeter of the proposed north excavation.

Run on 2/7/2025 12:18 AM UTC



Next Steps & Recommendations

1

•





Run on 2/7/2025 12:18 AM UTC





Run on 2/7/2025 12:18 AM UTC

hand tools.

process of digging down to 1.5 ft bgs using





Area being hand dug down to 1.5 ft bgs.



24E-04918, nAPP2431846528: Area where BS24-16 was collected at 3' bgs.



Excavation progress

Run on 2/7/2025 12:18 AM UTC



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

Run on 2/7/2025 12:18 AM UTC

.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/7/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/8/2025 12:58 AM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/7/2025 7:57 AM			
Departed Site	2/7/2025 3:59 PM			

Field Notes

- **8:03** On site at approximately 8:00 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.
- **8:04** I assessed site, completed JSA and reviewed safety for today's activities. Focused on excavation, line strikes, line of fire, mobile equipment, and ignition sources. Work to continue on excavating the initial proposed excavation.
- **17:53** 24E-04918, nAPP2431846528: In preparation for the hydrovac crew, I marked out the remaining proposed 6' excavation using paint and flagging.

17:51 25E-00017, nAPP2500254282: Using GPS, I recorded several of the south release proposed excavation polygons onto ArcGIS map.

17:53 24E-04918, nAPP2431846528:

I collected WS25-01 to -04 at 0-4' bgs and -05 to -06 at 0-3' bgs from the north release/excavations and field screened them for chloride.

All passed field screening criteria for chloride except WS25-02 and -05.

WS25-01, -03, -04, and -06 field screened for TPH. All passed field screening criteria for TPH except -06.



17:54 24E-04918, nAPP2431846528: Hydrovac crew arrived at approximately 9:40 and the Halo operation constructed an access ramp down into the 4' excavation for the hydrovac truck

17:54 24E-04918, nAPP2431846528:

I collected BS25-17 to -22 at 1' bgs from the northwest portion of the excavation.

All samples field screened for chloride. All samples passed field screening criteria except -17 and -18.

BS25-19 to -22 were field screened for TPH. All samples passed field screening criteria except -19.

- 17:52 I recorded the current perimeters of the multiple excavations ArcGIS-Collector map using
- 17:52 The site experienced high wind gust at ~1:00 pm. I observed that the Halo hand crew ceased hand digging at ~2:00 pm and began to reassemble the fencing around the different excavations.

Next Steps & Recommendations

1

















Run on 2/8/2025 12:58 AM UTC

ft.





Run on 2/8/2025 12:58 AM UTC

dig down to 6 ft bgs.







Daily Site Visit Signature

Inspector: Andrew Ludvik



.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/10/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/11/2025 1:24 AM	
Client Contact Name:	Amy Ruth	API #:		
Client Contact Phone #:	432-661-0571			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/10/2025 8:07 AM			
Departed Site	2/10/2025 4:02 PM			

Field Notes

8:39 Completed Vertex and XTO JSA on arrival. Reviewed JSA with Halo work crew and confirmed they already received approval to proceed from XTO. Communicated to XTO that I was also on location. On site to oversee continued excavation and hydrovac along buried pipelines and between treating equipment.

8:38 Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.

15:52 Halo personnel continued digging north of pipe rack between treating equipment to 1.5 feet bgs with hand tools.

15:53 Preliminary soil samples to be collected and field screened from additional excavation the following day.

Next Steps & Recommendations

1 Continue excavation.



Site Photos Viewing Direction: East Viewing Direction: West North of pipe rack facing east. Excavation to North of pipe rack facing west. Excavation to 1.5 feet bgs. 1.5 feet bgs. Viewing Direction: North Viewing Direction: South ing north. Experietion to 1.8 feet by North edge of pipe rack facing north. North of pipe rack and treating equipment Excavation to 1.5 feet bgs. facing south. Excavation to 1.5 feet bgs in progress.

Run on 2/11/2025 1:24 AM UTC





North of pipe rack between treating equipment facing north. Excavation to 1.5 feet bgs in progress.



At pad entrance facing west.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

Signature

Run on 2/11/2025 1:24 AM UTC

•



Client:	XTO Energy Inc. (US)	Inspection Date:	2/11/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/12/2025 1:17 AM	
Client Contact Name:	Amy Ruth	API #:		
Client Contact Phone #:	432-661-0571			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/11/2025 7:08 AM			
Departed Site	2/11/2025 4:28 PM			

Field Notes

- **15:41** Incident around pipe rack and treating equipment. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. Communicated to XTO and confirmed work clearance. On site to continue excavation with hand tools between and around treating equipment.
- **15:42** Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference
- **15:42** Work crew continued excavation to 1.5 feet bgs between and around treating equipment.
- 15:44 Collected preliminary base samples BS25-01 through BS25-06 at 1.5 feet bgs. Field screening results were below strictest threshold for chloride.
- **15:53** Per XTO: Excavation was required to terminate once within 1 feet of equipment to maintain stability.

Next Steps & Recommendations

1 Continue excavation.





Run on 2/12/2025 1:17 AM UTC









North of pipe rack facing east over excavation to 1.5 feet bgs.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

Run on 2/12/2025 1:17 AM UTC

•



Client:	XTO Energy Inc. (US)	Inspection Date:	2/12/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/13/2025 2:10 AM	
Client Contact Name:	Amy Ruth	API #:		
Client Contact Phone #:	432-661-0571			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/12/2025 7:01 AM			
Departed Site	2/12/2025 4:34 PM			

Field Notes

15:04 Incident around of treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. On site to continue hand excavation north of pipe rack.

15:05 Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.

15:08 Halo work crew continued hand excavation immediately north of pipe rack eastward and westward between treating equipment to 1.5 feet bgs. The excavation was not completed when work was terminated due to high winds and dust.

15:49 Collected preliminary base samples BS25-09 and BS25-11 from excavation to 1.5 feet bgs.

15:49 Field screening results for preliminary excavation base samples to 1.5 feet bgs were below NMOCD threshold for chloride.

Next Steps & Recommendations

1 Continue excavation.



Site Photos Viewing Direction: West Viewing Direction: East 111100 TO Y OF ADAM JOA BRUSHY DRAW 30-31 CTB OTICE NOT EDDY COUNTY LAT. 32.09165 LONG. -103.918555 EMERGENCY 832-625-1100 NG 5 North of pipe rack facing east. Excavation to At pad entrance facing west. 1.5 feet bgs. Viewing Direction: Northeast Viewing Direction: South North of pipe rack facing northeast. Excavation North of pipe rack facing south. Excavation to to 1.5 feet bgs. 1.5 feet bgs.

Run on 2/13/2025 2:10 AM UTC





North of pipe rack facing west. Excavation to 1.5 feet bgs.



North of pipe rack facing northwest. Excavation to 1.5 feet bgs.



North of pipe rack facing southeast. Excavation to 1.5 feet bgs.

Run on 2/13/2025 2:10 AM UTC



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

•



Client:	XTO Energy Inc. (US)	Inspection Date:	2/13/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/14/2025 1:03 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			
Arrived at Site	2/13/2025 7:20 AM		
Departed Site	2/13/2025 4:28 PM		

Field Notes

- **15:54** Incident around treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. On site to continue hand excavation north of pipe rack and start mechanical excavation south of pipe rack.
- **9:46** Swept excavation areas with magnetic locator prior to ground disturbance. Infrastructure proximity introduced interference.
- **15:57** Halo work crew continued digging east/west along north side of pipe rack to 1.5 feet bgs east. Crew did not complete excavation and will continue the following day.
- **16:00** Westernmost excavation south of pipe rack was started and completed with equipment. Excavation depths were 1.5 and 3 feet bgs due to higher chloride concentrations in the center.
- **16:02** Collected preliminary wall sample WS25-01 from available surfaces of west hand excavation. Field screening results were below strictest threshold for chloride.
- **16:08** Collected preliminary wall samples WS25-08 through WS25-13 from excavations to 1.5 and 3 feet south of pipe rack. Field screening results were below strictest threshold for chloride with the exception of WS25-11 which is against pipe rack and cannot be excavated further.
- **16:09** Collected preliminary base samples BS25-15 through BS25-19 from excavations to 1.5 and 3 feet south of pipe rack. Field screening results were below strictest threshold for chloride.

Run on 2/14/2025 1:03 AM UTC



Next Steps & Recommendations

1 Continue excavation.

Released to Imaging: 4/25/2025 7:46:45 AM

•



Site Photos Viewing Direction: West Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" At pad entrance facing west.



North edge of pipe rack facing north. Continued excavation to 1.5 feet bgs east of initial excavation.





Run on 2/14/2025 1:03 AM UTC





South edge of pipe rack facing south. Excavation to 1.5 and 3 feet bgs.
V

VERTEX

Daily Site Visit Report



Inspector: Lakin Pullman

Daily Site Visit Signature

Signature

Signature:

•



Client:	XTO Energy Inc. (US)	Inspection Date:	2/14/2025				
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/15/2025 1:35 AM				
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	2/14/2025 7:09 AM						
Departed Site	2/14/2025 4:52 PM						

Field Notes

- **8:29** Incident around of treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. On site to continue hand excavation north of pipe rack. Confirmed with XTO that I was on location and work was approved.
- **8:25** Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.
- **8:29** Communicated with Kent Retz with XTO and confirmed that laboratory turnaround time for all confirmation samples will be 48-hour to expedite excavation completion and backfill.
- **15:21** Halo work crew focused on completing excavation north of pipe rack to 1.5 feet bgs inside. Excavation west and east along north side of pipe rack were completed. Excavations were offset from load supporting objects by 1.5 feet to maintain stability.
- **15:24** Collected preliminary excavation base and wall samples BS25-09, BS25-10, BS25-11, WS25-01 and WS25-03 from new, complete, excavation surfaces. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **15:29** Excavation north of pipe rack tentatively completed pending confirmation sampling and corresponding lab results.

Next Steps & Recommendations

- **1** Collect confirmation samples from excavation north of pipe rack.
- **2** Continue excavation south of pipe rack.

Run on 2/15/2025 1:35 AM UTC

Powered by www.krinkleldar.com



Run on 2/15/2025 1:35 AM UTC

•







North of pipe rack, north of compressor shed facing east. West side of excavation to 1.5 feet bgs completed north of pipe rack.





of pipe rack.

of pipe rack.





North edge of pipe rack facing north. East side of excavation to 1.5 feet bgs completed north of pipe rack.

Viewing Direction: Northeast



North edge of pipe rack facing northeast. East side of excavation to 1.5 feet bgs completed north of pipe rack.



North edge of pipe rack facing north. East side of excavation to 1.5 feet bgs completed north of pipe rack.



North of pipe rack facing south. East side of excavation to 1.5 feet bgs completed north of pipe rack.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



•



Client:	XTO Energy Inc. (US)	Inspection Date:	2/15/2025				
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/16/2025 1:46 AM				
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	2/15/2025 7:21 AM						
Departed Site	2/15/2025 4:42 PM						

Field Notes

- **13:51** Incident around of treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. On site to collect confirmation samples of hand excavations north of pipe rack to 1 and 1.5 feet bgs. Communicated with XTO and received permission to work.
- **13:51** Swept excavation surfaces to be sampled with magnetic locator. Infrastructure proximity introduced interference.
- 14:34 Collected confirmation samples from surfaces of excavations to 1 and 1.5 feet bgs. Excavation was completed with hand tools as close to surrounding treating equipment and infrastructure as safely possible. The north edge of the excavation abuts an excavation in progress to address a separate incident. The south edge of the excavation is against a pipe rack.
- **14:35** Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- **16:02** Collected confirmation samples WS25-01 and WS25-03 through WS25-06 from walls of excavation to 1.5 feet bgs. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **15:59** Collected confirmation samples BS25-01 through BS25-11 from base of excavation to 1.5 feet bgs. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **16:01** Collected confirmation sample WS25-02 from south wall of excavation against north edge of pipe rack and equipment. Field screening results exceeded NMOCD strictest threshold for chloride. Excavations cannot continue south with equipment in place. Equipment is actively used for production.

Run on 2/16/2025 1:46 AM UTC



16:03 Collected confirmation samples BS25-12 through BS25-14 and WS25-07 from base and wall of excavation to 1 feet bgs. Field screening results were below NMOCD strictest criteria for chloride and TPH.

Next Steps & Recommendations

1 Submit confirmation samples to laboratory for analyses.

2 Continue excavation south of pipe rack.



<section-header>Site Photos





Northeast of compressor shack facing south. Collected confirmation samples BS25-09, BS25-10, and WS25-01 from excavation to 1.5 feet bgs.



Northeast of compressor shack facing southwest. Collected confirmation samples BS25-09, BS25-10, and WS25-01 from excavation to 1.5 feet bgs.





South of compressor shack facing east. Collected confirmation samples BS25-01, BS25-09, WS25-01, and WS25-02 from excavation to 1.5 feet bgs.



South of compressor shack facing northeast. Collected confirmation samples BS25-01, BS25-09, BS25-10, and WS25-01 from excavation to 1.5 feet bgs.









North of pipe rack facing east. Collected confirmation samples BS25-02, WS25-02, and WS25-03 from excavation to 1.5 feet bgs.



North edge of pipe rack facing northwest. Collected confirmation samples BS25-02, BS23-03, WS25-02, and WS25-03 from excavation to 1.5 feet bgs.





North of pipe rack facing west. Collected confirmation samples BS25-02, BS23-03, WS25 -02, and WS25-03 from excavation to 1.5 feet bgs.



North edge of pipe rack facing north. Collected confirmation samples BS25-11 and WS25-03 from excavation to 1.5 feet bgs.

Viewing Direction: Northwest



North edge of pipe rack facing northwest. Collected confirmation samples BS25-11 and WS25-03 from excavation to 1.5 feet bgs.



North of pipe rack facing south. Collected confirmation samples BS25-11 and WS25-03 from excavation to 1.5 feet bgs.





North of pipe rack facing south. Collected confirmation sample WS25-02 from south edge excavation to 1.5 feet bgs against pipe rack and equipment.

Viewing Direction: North



North of pipe rack facing north. Collected BS23 -05 through BS25-08, WS25-04, and WS25-05 from excavation to 1.5 feet bgs.



North edge of pipe rack facing north. Collected BS23-03 through BS25-08 and WS25-03 through WS25-05 from excavation to 1.5 feet bgs.

Viewing Direction: Northeast



Between treaters facing northeast. Collected BS23-07, BS25-08, WS25-04, WS25-05, and WS25-06 from excavation to 1.5 feet bgs.





Collected BS23-12 through BS25-14 and WS25-07 from excavation to 1 feet bgs.

07 from excavation to 1 feet bgs.





North of treating equipment facing southeast. Collected BS23-12 through BS25-14 and WS25-07 from excavation to 1 feet bgs.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

Run on 2/16/2025 1:46 AM UTC

•



Daily Soil Sampling

Client: Client: XTO Energy Inc. (US)

Location: Site: Brushy Draw 30-31 Fed Battery

Date: (SD: 2/15/25)

Sampling											
				Field	Screeni	ng		Data Co	ollection		
		Hydro	carbon		C	hloride					
Sample ID	Depth (ft)	voc ()	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BS25-01	1.5		4	0.09	20.3	62	175	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-02	1.5		11	0.21	20.3	235	200	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-03	1.5		9	0.30	20.4	360	175	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-04	1.5		10	0.19	20.6	193	200	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-05	1.5		6	0.14	21	103		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-06	1.5		7	0.13	20.9	93	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-07	1.5		13	0.10	20	89	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-08	1.5		10	0.26	20.3	307	350	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-09	1.5		6	0.24	20.4	274	150	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	



Daily Soil Sampling

								VERIEA
BS25-10	1.5	22	0.13	20.3	119	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	
BS25-11	1.5	9	0.28	19.9	353	225	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
BS25-12	1	9	0.09	21.8	0	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
BS25-13	1	10	0.08	22.6	0	75	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
BS25-14	1	5	0.20	22.5	125	175	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-01	0-1.5	9	0.12	19.6	135		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-02	0-1.5	16	6.07	20.1	8701	9450	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-03	0-1.5	50	0.40	20.3	509	350	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-04	0-1.5	16	0.46	19.7	622	500	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-05	0-1.5	19	0.43	20	565	450	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-06	1-0.5	15	0.16	20.8	141	200	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark
WS25-07	0-1	20	0.53	20.8	675	250	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	



Client:	XTO Energy Inc. (US)	Inspection Date:					
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/20/2025 12:24 PM				
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site							
Departed Site	2/19/2025 4:54 PM						

Field Notes

- **11:22** Incident around of treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. On site to start hand excavation of pipe rack. Also on site to collect confirmation samples south of pipe rack.
- 11:23 Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.
- **19:31** Collected confirmation samples from surfaces of excavations to 1.5 and 3 feet bgs immediately south of pipe rack. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- **19:31** Collected confirmation samples BS25-15, BS25-18, and BS25-19 from base of excavations to 1.5 feet bgs. Collected confirmation samples BS25-16 and BS25-17 from base of excavation to 3 feet bgs. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- 12:25 Collected confirmation samples WS25-08 and WS25-09 from walls of excavations to 1.5 feet bgs. Collected confirmation samples WS25 -10, WS25-12, and WS25-13 from walls of excavation to 3 feet bgs. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **19:36** Collected confirmation samples WS25-11 and WS25-14 from north walls of excavations to 3 and 1.5 feet bgs, respectively. The north excavation walls were as close as safety possible to the pipe rack and active production infrastructure. Field screening results exceeded NMOCD strictest threshold for chloride.



- **19:36** Work crew started excavation with hand tools north of large tower. An excavation to 3 feet bgs was completed west of the stairs and north of the tower. The excavation could not be expanded or connected to the larger excavation because surrounding equipment supports would be compromised.
- **19:35** Collected confirmation sample BS25-20 from base of isolated excavation to 3 feet bgs. Field screening results were below NMOCD strictest criteria for chloride and TPH.
- **19:37** Collected confirmation sample WS25-20 from walls of isolated excavation to 3 feet bgs. The excavation walls were as close as safety possible to the surrounding active production infrastructure. Field screening results exceeded NMOCD strictest threshold for chloride.
- **19:39** Kent Retz confirmed that a small mini-excavator can be used for remediation of accessible areas of the release. The excavator is not to work within 2 feet of the surrounding equipment.

Next Steps & Recommendations

1 Continue excavation.



<section-header>









South of pipe rack facing east. Collected confirmation samples from excavations to 1.5 and 3 feet bgs.

Viewing Direction: South



South edge of pipe rack facing south. Collected confirmation samples from hand excavation to 3 feet bgs.



South of pipe rack facing north. Collected confirmation samples from hand excavation to 3 feet bgs.

Viewing Direction: Southwest



South edge of pipe rack facing southwest. Collected confirmation samples from hand excavation to 3 feet bgs.

Run on 2/20/2025 12:24 PM UTC





South of pipe rack facing northeast. Collected confirmation samples from hand excavation to 3 feet bgs.



South of pipe rack facing southwest. Work crew started excavation south of pipe rack.



Daily Site Visit Signature

Inspector: Lakin Pullman Signature:

•



Daily Soil Sampling

Client: Client: XTO Energy Inc. (US)

Location: Site: Brushy Draw 30-31 Fed Battery

Date: (SD: 2/20/25)

Sampling											
				Field	Screeni	ng		Data Co	ollection		
		Hydro	carbon		C	hloride					
Sample ID	Depth (ft)	VOC ()	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BS25-15	1.5		15	0.20	21.4	173	150	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-16	3		4	0.14	20.6	121	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-17	3		18	0.17	20.5	168	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-18	1.5		4	0.13	20.1	128	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-19	1.5		3	0.10	20.3	76	75	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
BS25-20	3		34	0.36	20.1	460	350	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WS25-08	0-1.5		1	0.17	20	190	125	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WS25-09	0-1.5		2	0.20	21	190	125	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WS25-10	0-3		8	0.34	20.5	414	250	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	



Daily Soil Sampling

								VEHIEX	
WS25-11	0-3	12	2.12	20.1	3000	3100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	
WS25-12	1.5-3	21	0.13	19.9	137	100	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	
WS25-13	1.5-3	18	0.13	20.7	102	125	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	
WS25-14	0-1.5	23	1.31	20.4	1818	1900	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	
WS25-15	0-3	33	1.34	20.6	1853	1750	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	



Client:	XTO Energy Inc. (US)	Inspection Date:	2/20/2025				
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/21/2025 2:39 AM				
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	2/20/2025 7:10 AM						
Departed Site	2/20/2025 4:47 PM						

Field Notes

- **13:45** Incident around treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. On site to continue excavation south of pipe rack.
- **15:27** Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.
- **15:36** Halo hand crew continued excavation in area inaccessible by equipment east and northeast of tall tower. Excavation started at 1 feet bgs and continued to 3 feet bgs to meet closure threshold for chloride. Work is in progress.
- **16:42** Halo equipment crew started excavation south of pipe rack between large separator and tall tower. Excavation started at 1 feet bgs and was increased to 2 feet bgs. Excavation in progress.
- **16:44** Preliminary sample BS25-21 collected from hand excavation east of tall tower. Field screening results were below NMOCD threshold for chloride at 3 feet bgs.
- **18:38** Preliminary samples BS25-30, BS25-31, and BS25-32 collected from mechanical excavation between separator and tall tower. Field screening results were below NMOCD threshold for chloride at 2 feet bgs.

Next Steps & Recommendations

1 Continue excavation.

Run on 2/21/2025 2:39 AM UTC



Page 248 of 338

Run on 2/21/2025 2:39 AM UTC

•



Site Photos Viewing Direction: West Viewing Direction: West 1110 TO BRUSHY DRAW 30-31 CTE NOTICE NOTICE AUTHORIZED PROPER PPE PERSONNEL REQUIRED IN ONLY THIS AREA EDDY COUNTY LAT. 32.09165 LONG. -103.918555 CANGER SPEED LIMIT NO SMOKING 5MPH EMERGENCY 832-625-1100 South of pipe rack facing west. Excavation to 3 At pad entrance facing west. feet bgs. Viewing Direction: Southwest Viewing Direction: East South of pipe rack facing southwest. South of pipe rack facing east. Excavation to 3 Excavation to 3 feet bgs. feet bgs.

Run on 2/21/2025 2:39 AM UTC







Daily Site Visit Signature

Inspector: Lakin Pullman Signature:

•



Client:	XTO Energy Inc. (US)	Inspection Date:	2/21/2025				
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/22/2025 5:04 PM				
Client Contact Name:	Amy Ruth	API #:					
Client Contact Phone #:	432-661-0571						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	2/21/2025 7:02 AM						
Departed Site	2/21/2025 4:44 PM						

Field Notes

19:16 Incident around treating equipment and pipe rack. Completed Vertex and XTO JSA on arrival. Conducted safety meeting with Halo work crew. On site to continue hand and mechanical excavations south of pipe rack.

19:16 Swept excavation areas with magnetic locator. Infrastructure proximity introduced interference.

- **6:07** Halo work crew continued using hand tools to expand excavation on east side of release area. Field screening result for preliminary sample BS25-22 at 1 feet bgs was below closure threshold for chloride. Excavation to continue with depth increased in 1 feet increments as needed.
- **6:11** Halo work crew mechanically excavated to 1 and 2 feet bgs between large treater/separator. Base along north edge of excavation to 2 feet bgs below chloride threshold at BS25-30 and BS25-32. Field screening results at 2 feet bgs for BS25-29 and BS25-30 immediately to south exceeded chloride threshold and the respective area will be excavated to 3 feet bgs.
- **6:14** Field screening results for BS25-27 inside mechanical excavation 1 feet bgs in "corner" immediately west of tall tower were below threshold for chloride and should not require additional excavation.
- **6:15** Field screening results for BS25-26 inside mechanical excavation to 1 feet bgs immediately southwest of tall tower exceeded threshold for chloride and will have excavation depth increased to 2 feet bgs.
- 6:17 Halo stockpiled backfill on site as material was hauled out. Collected composite samples of backfill. Field screening results were below NMOCD strictest criteria for chloride and TPH.

Run on 2/22/2025 5:04 PM UTC


Next Steps & Recommendations

1 Continue excavation south of pipe rack.

2 Submit backfill sample to laboratory for analyses.









Run on 2/22/2025 5:04 PM UTC





North of tank battery facing southwest. Backfill

stockpile.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

Signature

Run on 2/22/2025 5:04 PM UTC

•

Released to Imaging: 4/25/2025 7:46:45 AM



Client:	XTO Energy Inc. (US)	Inspection Date:	2/24/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/25/2025 12:27 AM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174	-		
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/24/2025 8:02 AM			
Departed Site	2/24/2025 4:01 PM			

Field Notes

- **13:32** On site at approximately 8:00 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.
- **13:34** I assessed site, completed JSA and reviewed safety for today's activities. Focused on excavation, line strikes, line of fire, mobile equipment, and ignition sources. Work to continue on excavating the initial proposed excavation south of the pipe rack.

13:38 25E-00017, nAPP2500254282:

I collected BS25-23 at 1' bgs; -26 at 2' bgs; -29 and -31 at 3' bgs; -28, -33, and -34 at 1.5' bgs.

15:35 All samples were field screened for chloride using silver nitration.

Samples BS25-26, -29, -31, -33, and -34 passed field screening criteria, all other samples exceeded closure criteria.

17:20 Samples BS25-26, -29, -31, -33, and -34 were field screened for TPH using petroflag.

All samples passed field screening criteria.

17:21 I field screened a couple of test holes for Halo to give them a better idea of the depths they should initially target to the east and southeast of sample point BS25-21. The area east of BS25-21 will need to be further dug to 2.5-3 ft bgs. The area southeast of -21 will be targeted at 1 ft bgs.

Run on 2/25/2025 12:27 AM UTC



17:23 Halo was able to finish the remaining initial proposed excavation that was accessible with the mini-excavator. There is still a significant area to be excavated, through the use of hand tools, on the eastern most proposed excavation.

Next Steps & Recommendations









Southeast corner of excavation facing northwest. This area is being excavated using hand tools.



Excavation progress: Area where BS25-23 was collected at 1' bgs. The central trench was a test hole dug to ~2.5 ft and the hand crew has begun to expand out the test hole.





Test hole dug to 1 ft bgs.



Excavation progress east of the south separator.

Run on 2/25/2025 12:27 AM UTC









Excavation progress. Area southeast of large separator was dug down to ~1.5 ft bgs using mini-excavator.



Excavation progress. Area south of large excavator dug down to ~1.5 ft bgs using miniexcavator



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/25/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/26/2025 12:11 AM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	2/25/2025 7:39 AM			
Departed Site	2/25/2025 3:28 PM			

Field Notes

8:01 On site at approximately 7:40 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.

8:06 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. Focused on excavation, line strikes, line of fire, mobile equipment, and ignition sources. Work to continue on sampling the excavation recently dug south, southwest, and east of the separator (south of pipe rack).

The hand digging crew from Halo will not be on site today and hand digging on the east, southeast excavation will be put on hold.

- **16:54** It appears that the mini-excavator was having mechanical issues. A technician/mechanic arrived on site at approximately 12:20 pm and spent the rest of the afternoon working on it.
- 17:01 I collected BS25-35 to -40 at 1.5' bgs; WS25-19 at 0-2' bgs; -22 at 0-3' bgs; -23 to -25 at 0-1.5 bgs; -26 at 1.5-2' bgs; -27 and -29 at 1.5-3' bgs.
- **17:04** All samples were field screened for chloride using silver nitration.

All samples passed field screening criteria except BS25-28.

Run on 2/26/2025 12:11 AM UTC

Powered by www.krinkleldar.com

1

Daily Site Visit Report

17:05 All samples except WS25-28 were field screened for TPH using petroflag.

All samples passed field screening criteria.

Next Steps & Recommendations



Run on 2/26/2025 12:11 AM UTC























Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

Run on 2/26/2025 12:11 AM UTC

.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/27/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/27/2025 11:59 PM
Client Contact Name:	Marshall Boles	API #:	
Client Contact Phone #:	(806) 367-2174		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			
Arrived at Site	2/27/2025 7:46 AM		
Departed Site	2/27/2025 3:23 PM		

Field Notes

13:42 On site at approximately 7:45 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.

13:45 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. Focused on hand excavation near pad infrastructure and equipment and line strikes. Work to continue on hand digging the excavation south, southeast and east of the heater treater (south of pipe rack).

Halo sent out 3 employees for hand digging the excavation. There is no heavy equipment operator today.

16:43 I collected BH25-01 at 1', 2', and 3' bgs (north of WS25-17 & WS25-15, north of pipe rack) and BH25-02 at 1' and 2' bgs (north of WS25-21, north of pipe rack)

These samples were field screened for chloride using silver nitration. All samples passed field screening criteria.

16:45 BH25-01 at 3' and BH25-02 at 2' bgs were field screened for TPH using petroflag. Both samples passed field screening criteria

16:48 I collected BS25-23 at 3' bgs. The sample was field screened for chlorides and TPH and passed field screening criteria.



Page 274 of 338

16:51 Halo dug 3 test holes at ~1 ft bgs through the southeast portion of the proposed excavation area. I sample these areas and field screened them for chlorides for which the passed. We will target excavation at 1 ft bgs throughout this area.

16:52 BH25-01 at 3' bgs and BH25-02 at 2' bgs were jarred and will be sent to lab for analysis.

Next Steps & Recommendations

1



Site Photos Viewing Direction: East Viewing Direction: West Placard Excavation progress Viewing Direction: South Viewing Direction: South BH25-01 BH25-02









Excavation progress: area where BS25-23 was collected.



Excavation progress



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

.



Client:	XTO Energy Inc. (US)	Inspection Date:	2/28/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	2/28/2025 11:57 PM
Client Contact Name:	Marshall Boles	API #:	
Client Contact Phone #:	(806) 367-2174		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			
Arrived at Site	2/28/2025 7:41 AM		
Departed Site	2/28/2025 3:25 PM		

Field Notes

16:41 On site at approximately 7:40 am. I contacted Kent Retz informing him of my arrival.

8:07 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. Focused on hand excavation near pad infrastructure and equipment and line strikes. Work to continue on hand digging the excavation south, southeast and east of the heater treater (south of pipe rack).

Halo sent out 2 employees for hand digging the excavation. There is no heavy equipment operator today.

- 9:22 An additional Halo employee arrived on site and started working at ~9:20 am
- **16:42** Halo continued to expand the eastern 3 ft excavation by hand digging. I field screened a couple more test pits to help determine how much further this excavation would need to expand.
- 16:43 I collected WS25-29 at 0-3' bgs and field screened it for chloride and TPH. It passed field screening criteria.
- **16:46** After obtaining a clean wall sample (WS25-29), the 3 ft excavation does not need to be expanded any further. Halo will now focus on hand digging the remaining excavation to 1' bgs.

Next Steps & Recommendations

Run on 2/28/2025 11:57 PM UTC

1



Page 280 of 338

•















Daily Site Visit Signature

Inspector: Andrew Ludvik

- And Signature:

.



Client:	XTO Energy Inc. (US)	Inspection Date:	3/5/2025	
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	3/5/2025 11:55 PM	
Client Contact Name:	Marshall Boles	API #:		
Client Contact Phone #:	(806) 367-2174			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	3/5/2025 8:20 AM			
Departed Site	3/5/2025 3:13 PM			

Field Notes

9:09 On site at approximately 8:20 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.

9:12 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. Focused on hand excavation near pad infrastructure and equipment and line strikes. Work to continue on hand digging the excavation south, southeast and east of the heater treater (south of pipe rack) and advancing areas southwest of heater treater using mini excavator

Halo sent out 3 employees for hand digging the excavation and a heavy equipment operator with a spotter today.

9:15 The hand crew was a different crew than I've been working with the prior weeks. I did a site walk through with them explaining what remains to be excavated. Upon arrival at ~8:20 am, Halo had not started digging yet, they were waiting for tools/equipment to be delivered.

Equipment was delivered at ~8:45 am and work on the excavation commenced.

16:52 Collected BS25-23 and field screened portion of the wall that was newly exposed (WS25-18) from today's excavation. All samples passed field screening criteria.



Page 286 of 338

14:41 Halo ceased excavation activities at 2:30 pm and left site at 2:40 pm.

Next Steps & Recommendations

•









excavation.




North excavation (24E-04918, nAPP2431846528): backfilling (topsoil) being placed over the pipelines located at the 6ft excavation.



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

Run on 3/5/2025 11:55 PM UTC

.



Client:	XTO Energy Inc. (US)	Inspection Date:	3/6/2025			
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	3/7/2025 12:13 AM			
Client Contact Name:	Marshall Boles	API #:				
Client Contact Phone #:	(806) 367-2174					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	3/6/2025 8:14 AM					
Departed Site	3/6/2025 3:43 PM					

Field Notes

8:18 On site at approximately 8:15 am. I contacted Kent Retz informing him of my arrival and received authorization to proceed with excavation.

14:38 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. Focused on hand excavation near pad infrastructure and equipment and line strikes. Work to continue on hand digging the excavation south, southeast and east of the heater treater (south of pipe rack) and advancing areas southwest of heater treater using mini excavator

Halo sent out 3 employees for hand digging the excavation and a heavy equipment operator with a 2 spotters today.

- **14:42** Halo was able to finish up the hand excavation to the east, southeast, and south of the heater treater. I also directed them to step out WS25-21 an additional 6".
- **14:45** With the hand digging portion of the excavation complete, I had the excavator operator advance down/out the area where WS25-27 (was previously collected as WS25-28) and WS25-20 (combined previously collected WS25-27 and -28)
- **14:48** I collected BS25-24 at 1' bgs and -27 at 2' bgs; WS25-16 at 0-3' bgs, -17, -18, at 0-1' bgs, -19 at 0-2' bgs and -20 at 0-4' bgs.
- 14:49 All samples field screened for chlorides and hydrocarbons. All samples passed field screening criteria.
- 17:11 Halo has continued to work on backfilling the north excavation throughout the day

Run on 3/7/2025 12:13 AM UTC

1

Daily Site Visit Report



Next Steps & Recommendations

Run on 3/7/2025 12:13 AM UTC

•

























Area where WS25-16 was collected.

Run on 3/7/2025 12:13 AM UTC



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

.



Client:	XTO Energy Inc. (US)	Inspection Date:	3/7/2025			
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	3/7/2025 11:43 PM			
Client Contact Name:	Marshall Boles	API #:				
Client Contact Phone #:	(806) 367-2174					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	3/7/2025 8:04 AM					
Departed Site	3/7/2025 2:15 PM					

Field Notes

8:10 On site at approximately 8:05 am. I contacted Kent Retz informing him of my arrival.

16:13 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. On site to collect confirmation samples.

Halo has a heavy equipment working on backfilling the north release. I informed Halo they could backfill all excavations north of the pipe rack but to hold off on the excavations to the south of the pipe rack until we get lab results for samples collected there.

- **15:51** I collected BS25-21 through -39 and WS25-16 through -23.
- **16:13** Using gps, I mapped the perimeter of the final excavation depths/footprint.
- **15:54** Due to high winds, field screening will be completed at office laboratory.
- **15:55** All samples field screened for chlorides using silver nitrate titration and TPH using petroflag.

All samples passed field screening criteria.

15:55 All samples jarred, COCs filled out and will be sent to lab for analysis.

1

Daily Site Visit Report



Page 301 of 338

Next Steps & Recommendations

•





























Area where WS25-19 and BS25-25 were collected



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

Run on 3/7/2025 11:43 PM UTC

.



Daily Soil Sampling

Client: Client: XTO Energy Inc. (US)

Location: Site: Brushy Draw 30-31 Fed Battery

Date: (SD: 3/7/25)

Sampling											
		Field Screening						Data Collection			
		Hydro	carbon	Chloride			1 1				
Sample ID	Depth (ft)	VOC ()	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BS25-21	3		29				400			\checkmark	
BS25-22	1		12				185			\checkmark	
BS25-23	1		14				300			\checkmark	
BS25-24	1		19				408			\checkmark	
BS25-25	2		17				230			\checkmark	
BS25-26	1		19				263			\checkmark	
BS25-27	2		28				298			\checkmark	
BS25-28	3		22				270			\checkmark	
BS25-29	3		14				105			\checkmark	
BS25-30	2		23				495			\checkmark	
BS25-31	2		13				80			\checkmark	
BS25-32	1.5		10				160			\checkmark	
BS25-33	1.5		16				208			\checkmark	
BS25-34	1.5		14				138			\checkmark	
BS25-35	1.5		13				63			\checkmark	
BS25-36	1.5		15				115			\checkmark	
BS25-37	1.5		13				88			\checkmark	
BS25-38	1.5		15				265			\checkmark	
BS25-39	1.5		9				150			\checkmark	
WS25-16	0-3		27				280			\checkmark	
WS25-17	0-1		37				515			\checkmark	
WS25-18	0-1		28				513			\checkmark	
WS25-19	0-2		31				225			\checkmark	
WS25-20	0-3		27				193			\checkmark	
WS25-21	0-2		28				293			\checkmark	
WS25-22	0-1.5		28				438			\checkmark	
WS25-23	0-1.5		25				77			\checkmark	



Client:	XTO Energy Inc. (US)	Inspection Date:	3/7/2025			
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	3/7/2025 11:43 PM			
Client Contact Name:	Marshall Boles	API #:				
Client Contact Phone #:	(806) 367-2174					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	3/7/2025 8:04 AM					
Departed Site	3/7/2025 2:15 PM					

Field Notes

8:10 On site at approximately 8:05 am. I contacted Kent Retz informing him of my arrival.

16:13 25E-00017, nAPP2500254282:

I assessed site, completed JSA and reviewed safety for today's activities. On site to collect confirmation samples.

Halo has a heavy equipment working on backfilling the north release. I informed Halo they could backfill all excavations north of the pipe rack but to hold off on the excavations to the south of the pipe rack until we get lab results for samples collected there.

- **15:51** I collected BS25-21 through -39 and WS25-16 through -23.
- **16:13** Using gps, I mapped the perimeter of the final excavation depths/footprint.
- **15:54** Due to high winds, field screening will be completed at office laboratory.
- **15:55** All samples field screened for chlorides using silver nitrate titration and TPH using petroflag.

All samples passed field screening criteria.

15:55 All samples jarred, COCs filled out and will be sent to lab for analysis.



Page 312 of 338

Next Steps & Recommendations

1

•









Run on 3/7/2025 11:43 PM UTC





















Area where WS25-19 and BS25-25 were collected



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature:

Run on 3/7/2025 11:43 PM UTC

.



Client:	XTO Energy Inc. (US)	Inspection Date:	3/8/2025			
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	3/8/2025 9:11 PM			
Client Contact Name:	Marshall Boles	API #:				
Client Contact Phone #:	(806) 367-2174					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	3/8/2025 8:45 AM					
Departed Site	3/8/2025 10:05 AM					

Field Notes

9:53 On site to document the final, completed excavation for release nAPP2500254282.

I assessed site, completed JSA and reviewed safety for today's activities.

Next Steps & Recommendations

1



Site Photos Viewing Direction: South Viewing Direction: West The 1.5 foot excavation south of the west large The north 1 foot excavation (north of the two large separators) facing south. separator, north of the pipe rack) Viewing Direction: Northwest Viewing Direction: North

The 1.5 foot excavation southwest of the west large separator, north of the pipe rack)

The 1.5 foot excavation southwest of the west large separator, north of the pipe rack)

Run on 3/8/2025 9:11 PM UTC





The 1.5 and 3 foot excavations south of theThe 1.5 apipe rack, northwest of the south separator.pipe rack

The 1.5 and 3 foot excavations south of the pipe rack, northwest of the south separator.

Run on 3/8/2025 9:11 PM UTC












The 1 and 3 foot excavations south of the pipe rack, south, southeast, and east of the heater treater.

Run on 3/8/2025 9:11 PM UTC

south of the heater treater.





The 3 foot excavation south of the pipe rack, northeast of the heater treater.

separators, north of the pipe rack)





The 1.5 foot excavation between the two large separators, north of the pipe rack)

Run on 3/8/2025 9:11 PM UTC

separators, north of the pipe rack)







Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature: Signature

Run on 3/8/2025 9:11 PM UTC

.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Page 331 of 338

QUESTIONS

Action 449292

QUESTIONS	
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	449292
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500254282
Incident Name	NAPP2500254282 BRUSHY DRAW 30-31 FEDERAL BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2207332396] BRUSHY DRAW 30-31 FED BATTERY

Location of Release Source

Please answer all the questions in this group.		
	Site Name	BRUSHY DRAW 30-31 FEDERAL BATTERY
	Date Release Discovered	01/01/2025
	Surface Owner	Federal

Incident Details

Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Dump Line Produced Water Released: 47 BBL Recovered: 10 BBL Lost: 37 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

Page 332 of 338

QUESTIONS, Page 2

Action 449292

QUESTIONS (continued)	
	OGRID:

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	449292
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped True		
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet	Not answered. ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of	
Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/23/2025	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	449292
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	Νο
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		lligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	6800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4598
GRO+DRO	(EPA SW-846 Method 8015M)	4101
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes completed nelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence		01/22/2025
On what date will (or did) the final sampling or liner inspection occur		03/20/2025
On what date will (or was) the remediation complete(d)		03/20/2025
What is the estimated surface area (in square feet) that will be reclaimed		0
What is the estimated volume (in cubic yards) that will be reclaimed		0
What is the estimated surface area (in square feet) that will be remediated		6283
What is the estimated volume (in cubic yards) that will be remediated		408
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 4/25/2025 7:46:45 AM

Action 449292

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 449292

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	449292	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com

Date: 04/07/2025 The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 5

Action 449292

Page 335 of 338

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	449292	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	449292
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	442685
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2025
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	50

Remediation	Closure	Req	ues	t
Only anowar th	a avaatian		hia a	

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	6283			
What was the total volume (cubic yards) remediated	408			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	6283			
What was the total volume (in cubic yards) reclaimed	408			
Summarize any additional remediation activities not included by answers (above)	see report			
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.				
	Name: Robert Woodall			

I hereby agree and sign off to the above statement	Title: Environmental Analyst
Thereby agree and sign on to the above statement	Email: robert.d.woodall@exxonmobil.com Date: 04/07/2025
	Date: 04/07/2025

QUESTIONS, Page 6

Action 449292

Page 336 of 338

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 7

Page 337 of 338

Action 449292

QUESTIONS (continued) OGRID: Operator: **XTO ENERGY, INC** 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 449292 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Page 338 of 338

CONDITIONS

Action 449292

.

CONDITIONS	
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	449292
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	4/25/2025
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/25/2025
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/25/2025
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/25/2025
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/25/2025
bhall	The report states "ExxonMobil Upstream Company (Exxon) retained Vertex Resource Services Inc. (Vertex) to conduct a deferral request for a produced water release that occurred on January 1, 2025, at Brushy Draw 30 – 31 Federal Tank Battery facility ID fAPP2207332396 (hereafter referred to as the "site"). " Please be advised that a deferral is not necessary unless contamination above the closure standards is left in place. If a site is remediated to the closure standards and is waiting to be reclaimed when the site is no longer reasonably needed for production or subsequent drilling activities, a deferral is not needed.	4/25/2025